# SUPPLEMENTARY ROAD IMPACT ASSESSMENT



# SUPPLEMENTARY REPORT TO THE EIS



# Supplementary Road Impact Assessment

Bowen Gas Project SREIS

CEB06466

Prepared for Arrow Energy Pty Ltd via URS Australia Pty Ltd

March 2014





# **Document Information**

Prepared for	Arrow Energy Pty Ltd via URS Australia Pty Ltd
Project Name	Bowen Gas Project SREIS
File Reference	6466 BGP SREIS RIA V3 2014 02 05.docx
Job Reference	CEB06466
Date	March 2014

# **Contact Information**

Cardno (Qld) Pty Ltd ABN 57 051 074 992

Level 11 Green Square North Tower 515 St Paul's Terrace Locked Bag 4006 Fortitude Valley Qld 4006

Telephone: 07 3369 9822 Facsimile: 07 3369 9722 International: +61 7 3369 9822

transportqld@cardno.com.au www.cardno.com.au

# **Document Control**

Version	Date	Description of Revision	Author Initials	Author Signature	Reviewer Initials	Reviewed Signature
V1	6 Dec 2013	Issue for URS review	JJP	-	JDB	-
V2	9 Jan 2014	Issue for Arrow review	JJP	-	JDB	-
V3	5 Feb 2014	Final issue	JJP	Adts	JDB	Helle Geografe :
						10

Version	Reason for Issue / Stage of Deliverable	Approver Initials	Approved Signature	Approved Release Date
V1	Issued for URS review	SRH	-	
V2	Issued for Arrow review	SRH	-	
V3	Final issue	SRH	10 Bleefer	5 Feb 2014

© Cardno 2013. Copyright in the whole and every part of this document belongs to Cardno and may not be used, sold, transferred, copied or reproduced in whole or in part in any manner or form or in or on any media to any person other than by agreement with Cardno.

This document is produced by Cardno solely for the benefit and use by the client in accordance with the terms of the engagement. Cardno does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by any third party on the content of this document.

# Executive Summary

Arrow Energy Pty Ltd (Arrow) proposes expansion of its Coal Seam Gas (CSG) operations in the Bowen Basin through the Bowen Gas Project (the Project). As part of the Environmental Impact Statement (EIS) assessment, URS Australia Pty Ltd (URS) prepared a Road Impact Assessment (RIA) to assess the significance of the potential road impacts associated with the Project.

Since publication of the EIS for public comment in early 2013, the Project's field development plan and conceptual design has advanced. The advancement is the result of further exploration activities which have improved the understanding of the gas resource in addition to refinement of the development and operational processes. The recent changes to Project planning warrant additional assessment to validate the road impacts previously reported within the EIS RIA. Consequently Cardno (Qld) Pty Ltd (Cardno) has been commissioned to prepare an updated RIA to form part of the Supplementary Report to the Environmental Impact Statement (SREIS) referred to herein as the SREIS RIA.

The Project is now planned to include the establishment, operation and decommissioning of 4,000 production wells (approximately), two Central Gas Processing Facilities (CGPFs), two Water Treatment Facilities (WTFs), 33 Field Compression Facilities (FCFs), and associated workforce accommodation and logistics facilities. The Project development area covers approximately 8,000sq.km extending some 200km south west of Mackay, with the bulk of the area extending from approximately 100km north to approximately 100km south of Moranbah.

The SREIS RIA presents a strategic assessment of the intensity and context of the potential road impacts associated with the Project and assesses the significance of the residual road impacts post-implementation of the planned management strategies. Impacts associated with other transport modes (e.g. sea, air, rail and pipeline) are beyond the scope of the SREIS RIA.

The SREIS RIA assumes that the road related approval conditions applied to the Project will establish the mechanisms by which the safety, efficiency and service life of the road network will be maintained. It has been assumed that, consistent with other recently approved CSG projects, the road related conditions applied to the Project will establish broad requirements in relation to the following:

- > Post-EIS Road Impact Assessments (Post-EIS RIAs) which will identify the Project's impact on the safety, efficiency and service life of the road network following detailed planning (i.e. post-EIS approval, site selection and road authority engagement).
- > Post-EIS Road-use Management Plans (Post-EIS RMPs) which will summarise the Project's transport task, transport routes, safety strategies and any required road upgrades or contributions.
- > Post-EIS Infrastructure Agreements (Post-EIS IAs) which will formalise the amount of and timing of any required contributions towards road upgrades or pavement activities identified in the Post-EIS RIAs.

Consistent with the intent of the SREIS assessment phase, the SREIS RIA does not seek to identify a comprehensive list of the proponent funded road works or contributions ultimately required to support the Project. The identification of all the specific works and contributions required to support the Project will occur via the preparation of Post-EIS RIAs. The specific works and contributions identified in the Post-EIS RIAs will ultimately be included in the Post-EIS IAs established with road authorities. This assessment approach is consistent with typical practice for large, geographically dispersed projects in Queensland as a comprehensive list of works and contributions is not required to inform the drafting of EIS approval conditions.

To inform the SREIS RIA, road condition data has been sourced for the roads in and within proximity to the Project development area. The data is presented as an update to the condition data summarised in the EIS RIA for an expanded set of roads. Interrogation of the updated and expanded dataset broadly identifies that no significant changes have occurred to road conditions since preparation of the EIS RIA.

The SREIS RIA has identified other projects, predominately associated with gas and coal production, that have the potential to contribute to long term growth in traffic demands on the road network and therefore

influence cumulative impacts. When forecasting future baseline traffic demands it has been assumed that a comparable level of traffic demand increase will continue to occur for the foreseeable future to that which has historically occurred. This assumption is conservative as the number of projects anticipated to occur over the foreseeable future is substantially less than those that have occurred during the recent mining investment boom. Furthermore, it has been assumed that pavement loadings will increase at 3% per annum consistent with the typically adopted approach for forecasting future pavement loadings in Queensland.

The traffic generating activities undertaken as part of the Project have been classified by grouping activities into the three phases of the Project's lifecycle. Activities associated with the different phases are likely to be undertaken concurrently across the Project development area. The traffic generation potential of each of the Project activities has been refined since preparation of the EIS RIA to capture the results of recent logistics planning and to ensure a worst-case scenario has been assessed. The updated estimates also reflect the stated intent to minimise the use of private vehicles by transporting the Project workforce by bus.

A Simulation and Assignment of Traffic to Urban Road Networks (SATURN) traffic model was developed to forecast the transport tasks and traffic demands likely to be associated with the Project. Using a strategic modelling process, combined with the estimated traffic generation potential associated with the construction, operation and decommissioning of each Project facility, the Project's traffic demands on each road link over the Project life have been forecast. This process provided transport task and traffic demand forecasts such as the total transport task, peak traffic demands and peak pavement loadings associated with the Project.

Traffic modelling indicates that the Project's peak transport task is anticipated to occur during 2018 which is significantly earlier than the 2045 peak timing previously identified in the EIS RIA. Traffic modelling also indicates that the Project traffic demands forecast as part of the SREIS RIA process are significantly lower at 2045 as compared to the forecasts previously prepared as part of the EIS RIA process. These differences can be attributed to the different Project schedules assessed and the greater level of modelling sophistication informing the SREIS RIA.

The vast majority of the Project's transport task is anticipated to occur on the Department of Transport and Main Road's (TMR's) and Isaac Regional Council's (IRC's) road networks with limited use of other authorities' road networks. At its peak, the Project is anticipated to increase the level of total travel occurring on the State-controlled road network within the extent of the SREIS RIA Study Area by approximately 0.2% compared to existing levels.

A literature review has been undertaken to collate best practice guidance in relation to appropriate traffic engineering thresholds to maintain the safety, efficiency and service life of the road network. The contemporary guidance has informed the formulation of the Project's planned management strategies. The strategies establish generic responses to common engineering situations which are likely to occur over the life of the Project. The strategies are typical responses only and consideration of site constraints will ultimately need to occur to ensure appropriate engineering outcomes are realised at each individual location. Nevertheless the planned management strategies establish the framework upon which the works ultimately identified in the Post-EIS RIAs, and included in the Post-EIS IAs, will be determined.

The SREIS RIA expands upon the work previously undertaken as part of the EIS RIA by documenting both a traditional traffic engineering assessment in addition to an updated environmental values assessment. Both assessments undertaken to support the SREIS RIA seek to determine the significance of the residual road impacts post-application of typical approval conditions and post-implementation of the planned management strategies. The inclusion of both approaches within the SREIS RIA provides road authorities confidence that the planned management strategies will preserve key road environmental values whilst also exceeding or at least meeting typical traffic engineering practice requirements.

The traditional traffic engineering assessment presented within the SREIS RIA is consistent with the principles established within TMR's *Guidelines for Assessment of Road Impacts of Development* (GARID). The SREIS RIA includes a traditional scoping assessment, level of service assessment, pavement impact assessment and case study assessments.

The scoping assessment considers the extent of the road network over which Project traffic demands may significantly increase surveyed traffic in accordance with GARID requirements. The assessment indicates that the Project has the potential to significantly increase traffic demands on three State-controlled roads: Fitzroy Developmental Road, Collinsville-Elphinstone Road and Suttor Developmental Road. This finding is

generally consistent with the outcome previously documented within the EIS RIA which identified that the Project would significantly increase baseline traffic demands on a limited number of roads.

The level of service assessment considers the performance of the road network accounting for traffic growth associated with the cumulative impact of other projects. The assessment identified that all scoped road sections will continue to operate at a level of service "A" irrespective of the presence of Project traffic demands. The level of service assessment has identified that while Project traffic demands are likely to significantly increase baseline traffic on sections of the road network; this increase is unlikely to significantly affect the level of service afforded by the road network. This finding is generally consistent with the outcome previously documented within the EIS RIA which also identified that the Project would not significantly affect the level of service afforded by the road network.

The pavement impact assessment considers the impact that pavement loadings associated with Project traffic demands may have on the required levels of maintenance activity and the service life of the road network. The assessment identified that the Project is likely to significantly impact TMR's pavement maintenance and rehabilitation activities. This finding is additional to the outcomes previously documented within the EIS RIA which did not specifically consider the impact that Project traffic demands may have on pavement maintenance and rehabilitation activities

Field inspections were undertaken during October 2013 to inform the case study application of the planned management strategies. Defined access routes were identified for each of the case study project sites based on existing road conditions. The case study assessments identified the potential requirement for road upgrades along the defined access routes. This includes the potential provision of upgraded sealed roads and intersection forms. This finding is different to that presented within the EIS RIA which did not identify the requirement for any specific road works to facilitate safe and efficient access to project facilities. The assessment also identified that implementation of the planned management strategies will result in outcomes that exceed or at least meet typical traffic engineering practice requirements.

An environmental values assessment was also undertaken for a worst-case scenario to confirm the effectiveness of the planned management strategies. The environmental values assessment methodology has been refined from that previously presented within the EIS RIA. The environmental values assessment considers the level of significance of the Project's potential road impacts both pre- and post-implementation of the planned management strategies. The assessment has identified that there are unlikely to be residual impacts of higher order significance post-implementation of the planned management strategies. Furthermore, the SREIS RIA has confirmed that application of the planned management strategies will result in intervention works which exceed or at least meet standard traffic engineering practice requirements.

The Post-EIS RIAs ultimately prepared will identify the specific works required to provide safe and efficient access to all Project facilities in addition to the contributions required to preserve the service life of the road network. The associated Post-EIS IAs established with relevant road authorities will capture the value and timing of the identified works and contributions.

[This page has been left intentionally blank]

# Table of Contents

Exe	ecutive	Summary	iii
Abl	breviati	ons	xi
1	Repo	rt Overview	1
	1.1	Report Context	1
	1.2	Report Structure	1
	1.3	Limitations	2
2	Prop	onent and Project Overview	3
	2.1	Project Proponent	3
	2.2	Project Description	3
	2.3	Project Schedule	4
3	Asse	ssment Overview	9
-	3.1	Need for Further Assessment	9
	3.2	Road Related Conditions	9
	3.3	Assessment Approach	9
	3.4	SREIS RIA Methodology	9
	3.5	Assessment Extents	10
4	Legis	slative Overview	13
	4.1	Context	13
5	Exist	ing Road Conditions	15
	5.1	Overview	15
	5.2	Road Classification	15
	5.3	Traffic Characteristics	15
	5.4	Infrastructure Attributes	17
	5.5	Road Users	17
	5.6	Active Transport	18
6	Futur	e Baseline Traffic Forecasts	33
	6.1	Other Projects with Potential Cumulative Impacts	33
	6.2	Future Baseline Traffic Demands	33
	6.3	Future Baseline Pavement Loadings	34
7	Proje	ect Activities	35
	7.1	Project Activities	35
	7.2	Traffic Generation of Project Activities	35
8	Proje	ect Transport Task and Traffic Demands	37
	8.1	Project Traffic Model	37
	8.2	Forecast Project Transport Task	37
	8.3	Forecast Project Traffic Demands	41
	8.4	Comparison of EIS RIA and SREIS RIA Project Traffic Demands	42
	8.5	Forecast Project Pavement Loadings	43
	8.6	Forecast Project Pedestrian and Cyclist Demands	43
	8.7	Forecast Public Transport Demands	43
9	Litera	ature Review	51
	9.1	Context	51
	9.2	Best Practice Guidance	51

10	Plann	ed Management Strategies	53
	10.1	Overview	53
		Planned	53
	10.2	Management Strategies	53
11	Mana	gement Strategies Application	57
	11.1	Overview	57
	11.2	Case Study Management Strategy Applications	57
12	Tradit	ional Traffic Engineering Assessment	59
	12.1	Overview	59
	12.2	Scoping Assessment	59
	12.3	Level of Service Assessment	59
	12.4	Pavement Impact Assessment	60
	12.5	Case Study Traditional Traffic Engineering Assessments	62
13	Manag	gement Strategies Effectiveness	69
	13.1	Overview	69
	13.2	Case Study Outcome Comparison	69
14	Envire	onmental Values Assessment	71
	14.1	Overview	71
	14.2	Adopted Magnitude Thresholds	72
	14.3	Adopted Sensitivity Thresholds	72
	14.4	Adopted Significance Thresholds	75
	14.5	Significance of Impacts Pre-Implementation of Management Strategies	75
	14.6	Significance of Impacts Post-Implementation of Management Strategies	75
	14.7	Environmental Values Assessment Summary	76
15	Concl	lusions	79
Glos	ssary		81
Refe	erences		83

# Tables

Table 1-1	Report Sections	1
Table 1-2	Report Appendices	2
Table 2-1	Summary of Project Description Changes	4
Table 5-1	SREIS RIA Study Area Transport Demand (2012)	16
Table 6-1	Other Projects Considered within SREIS RIA	33
Table 7-1	Traffic Generation Potential of Project Activities	36
Table 8-1	Project Transport Task by Vehicle Type	38
Table 8-2	2045 Project Traffic Demands Comparison (EIS RIA vs. SREIS RIA)	42
Table 8-3	Peak Year Project Traffic Demands Comparison (EIS RIA vs. SREIS RIA)	43
Table 9-1	Referenced Best Practice Guidance	51
Table 10-1	Management Strategies for Sealed Road Sections of Defined Access Routes	53
Table 10-2	Management Strategies for Unsealed Road Sections of Defined Access Routes	54
Table 10-3	Management Strategies for Intersections along Defined Access Routes	54
Table 10-4	Management Strategies for Rail Crossings along Defined Access Routes	54

Table 10-5	Management Strategies for Bridges along Defined Access Routes	55
Table 10-6	Management Strategies for School Bus Routes along Defined Access Routes	55
Table 10-7	Management Strategies for Stock Routes along Defined Access Routes	55
Table 12-1	Level of Service Assessment for Significantly Impacted Road Sections	60
Table 14-1	Significance of Impact Matrix	71
Table 14-2	Summary of Sensitivity Values Pre-Implementation of Management Strategies	73
Table 14-3	Summary of Sensitivity Values Post-Implementation of Management Strategies	74
Table 14-4	Significance of Impacts: Pre-Implementation of Management Strategies Matrix	75
Table 14-5	Significance of Impacts: Post-Implementation of Management Strategies Matrix	75

# Figures

Figure 2-1	Locality Map	5
Figure 2-2	Drainage Areas	6
Figure 2-3	Representative Facility Locations	7
Figure 3-1	SREIS RIA Study Area	11
Figure 5-1	Road Authority Jurisdictions	19
Figure 5-2	Functional Road Hierarchy	20
Figure 5-3	Annual Average Daily Traffic Volumes (2012)	21
Figure 5-4	10 Year Annual Traffic Growth (2002 to 2012)	22
Figure 5-5	Equivalent Standard Axle Loadings (2012)	23
Figure 5-6	Historic Crash Locations and Road Section Rates (2006 to 2010)	24
Figure 5-7	Road Seal Width	25
Figure 5-8	Road Roughness	26
Figure 5-9	Maintenance Rates	27
Figure 5-10	Existing Rail Infrastructure	28
Figure 5-11	Motorist Stopping Areas	29
Figure 5-12	Multi-Combination Vehicle Routes	30
Figure 5-13	School Bus Routes	31
Figure 5-14	Stock Routes	32
Figure 8-1	Traffic Model Elements	44
Figure 8-2	Total Transport Task (2015-2056)	45
Figure 8-3	Average Project AADT (2015-2056)	46
Figure 8-4	Maximum Project AADT (Peak Year for Individual Links)	47
Figure 8-5	Year of Maximum Project AADT for Individual Links	48
Figure 8-6	Total Project Pavement Loading (2015-2056)	49
Figure 11-1	Management Strategies Case Study Outcomes	58
Figure 12-1	Scoping Assessment	63
Figure 12-2	Peak Annual Maintenance Impact	64
Figure 12-3	Peak Annual Maintenance Impact Significance	65
Figure 12-4	Pavement Service Life Reduction	66
Figure 12-5	Pavement Service Life Reduction Significance	67
Figure 12-6	Traffic Engineering Case Study Outcomes	68

Figure 13-1 Defined Access Route Required Upgrades Comparison	70
Figure 14-1 Significance of Impacts Pre-Management Strategies	77
Figure 14-2 Significance of Impacts Post-Management Strategies	78

# Charts

Chart 8-1	Project Transport Task by Vehicle Type and Project Year	38
Chart 8-2	Project Transport Task by Road Authority	39
Chart 8-3	Project Transport Task on TMR Road Network by Vehicle Type	39
Chart 8-4	Project Transport Task by TMR Region	40
Chart 8-5	Project Impact on Existing (2012) Transport Task occurring within SREIS RIA Study Area	41
Chart 12-1	Road Length Over Which The Project May Significantly Increase Maintenance Activity	61

# Appendices

Appendix A	Data Descriptions
Appendix B	Location of Other Projects
Appendix C	Project Activities and Traffic Generation
Appendix D	Annual Project Traffic Demand Forecasts
Appendix E	Literature Review
Appendix F	Pavement Impact Assessment
Appendix G	Traffic Engineering Case Study Assessments

# Abbreviations

Abbreviation	Description
AADT	Annual Average Daily Traffic
Arrow	Arrow Energy Pty Ltd
Cardno	Cardno (Qld) Pty Ltd
CGPF	Central Gas Processing Facility
CHRC	Central Highlands Regional Council
CSG	Coal Seam Gas
EIS	Environmental Impact Statement
ESA	Equivalent Standard Axle
FCF	Field Compression Facility
FFU	Fit for Use
GARID	Guidelines for Assessment of Road Impacts of Development
IA	Infrastructure Agreement
IPF	Integrated Processing Facility
IVMS	In Vehicle Monitoring System
IRC	Isaac Regional Council
LNG	Liquefied Natural Gas
MCV	Multi-Combination Vehicle
MRC	Mackay Regional Council
Post-EIS IA	Post-EIS Infrastructure Agreement
Post-EIS RIA	Post-EIS Road Impact Assessment
Post-EIS RMP	Post-EIS Road-use Management Plan
QPS	Queensland Police Service
RIA	Road Impact Assessment
RMP	Road-use Management Plan
SATURN	Simulation and Assignment of Traffic to Urban Road Networks
SREIS	Supplementary Report to the Environmental Impact Statement
TCC	Townsville City Council
ToR	Terms of Reference
TMR	Department of Transport and Main Roads
TWAF	Temporary Workers Accommodation Facility
URS	URS Australia Pty Ltd
VKT	Vehicle Kilometres of Travel
WRC	Whitsunday Regional Council
WTF	Water Treatment Facility

[This page has been left intentionally blank]

# 1 Report Overview

## 1.1 Report Context

Cardno (Qld) Pty Ltd (Cardno) has been commissioned by URS Australia Pty Ltd (URS) on behalf of Arrow Energy Pty Ltd (Arrow), to complete a Road Impact Assessment (RIA) as part of the Supplementary Report to the Environmental Impact Statement (SREIS) for the Bowen Gas Project (the Project). The SREIS RIA prepared by Cardno expands upon the Environmental Impact Statement (EIS) RIA previously prepared for the Project by URS.

Arrow proposes expansion of its Coal Seam Gas (CSG) operations in the Bowen Basin through the Project. The need for the Project arises from the growing demand for gas in the domestic market, global demands and the associated expansion of liquefied natural gas (LNG) export markets. The RIA considers the road impacts potentially associated with the Project based on the Project Description chapter (Section 3) of the SREIS.

### 1.2 Report Structure

Table 1-1 summarises the report structure while Table 1-2 summarises the content of the report appendices.

Se	ection	Description
1	Report Overview	Describes the context of the report including the report structure and limitations.
2	Proponent and Project Overview	Describes the proponent, the Project and the assessed Project schedule.
3	Assessment Overview	Identifies the need for the SREIS and the adopted assessment approach, methodology and extents.
4	Legislative Overview	Outlines the legislative requirement to prepare a RIA to inform the EIS process.
5	Existing Road Conditions	Documents the existing road conditions in and within proximity to the Project development area and contrasts these to the conditions previously considered within the EIS RIA.
6	Future Baseline Traffic Demands	Details other projects likely to influence future traffic demands on the road network and the traffic forecasting approach adopted for the SREIS RIA to capture the associated cumulative impacts.
7	Project Activities	Identifies the traffic generating activities associated with the various phases of the Project for each Project facility type.
8	Project Transport Task and Traffic Demands	Summarises the traffic modelling undertaken to inform the SREIS RIA and presents the Project's transport task and associated traffic demands. A comparison of the traffic forecasts previously reported within the EIS RIA is also presented.
9	Literature Review	Summarises the contemporary standards which informed formulation of the planned management strategies.
10	Planned Management Strategies	Presents the planned management strategies formulated to maintain the safety, efficiency and service life of the road network.
11	Management Strategies Application	Demonstrates the application of the management strategies for the defined access routes servicing case study project sites and the resultant road infrastructure.
12	Traditional Traffic Engineering Assessment	Presents the results of a traditional scoping assessment, level of service assessment, pavement impact assessment and case study assessments.
13	Management Strategies Effectiveness	Compares the management strategy outcomes to the traditional traffic engineering assessment outcomes to verify the effectiveness of the management strategies.
14	Environmental Values Assessment	Presents the results of an alternative environmental values assessment including consideration of the Project's impact pre- and post-implementation of the planned management strategies.
15	Conclusions	Presents the assessment conclusions.

Table 1-1 Report Sections

Appendix	Description
A Data Descriptions	Reproduces data descriptions associated with the presented data.
B Location of Other Projects	Identifies the location of the other projects referenced in Section 6.
C Project Activities and Traffic Generation	Provides a detailed breakdown of the traffic generation potential assessed for each Project facility.
D Annual Project Traffic Demand Forecasts	Presents the Project traffic demands forecast for each Project year.
E Literature Review	Presents further details of the road standards which informed the formulation of the planned management strategies for a technical audience.
F Pavement Impact Assessment	Presents further details of the pavement impact assessment for a technical audience.
G Traffic Engineering Case Study Assessments	Presents further details of the traditional traffic engineering road standard case study assessments for a technical audience.

#### Table 1-2 Report Appendices

### 1.3 Limitations

Cardno has undertaken the SREIS RIA in accordance with the usual care and thoroughness of the engineering profession. The assessment is based on accepted traffic engineering practices and standards applicable at the time.

The adopted assessment methodology and sources of information utilised by Cardno are outlined in the SREIS RIA. Cardno has made no independent verification of the supplied Project information or existing road condition data beyond the agreed scope of works. Within the extent of the assessment scope no indications were found however that the supplied Project information or existing road condition data relied upon was inaccurate.

The assessment was undertaken between July 2013 and January 2014 and is based upon the road conditions encountered and the Project information available at the time. Cardno disclaims responsibility for any changes to Project planning or road conditions that may occur after completion of the assessment.

# 2 Proponent and Project Overview

## 2.1 Project Proponent

Arrow is a leading cleaner energy company with five CSG projects, ownership of one, and interests in two other gas-fired power stations with plans to deliver LNG to the international market through a world class plant in Gladstone. Arrow is focused on the exploration, extraction and use of CSG, a naturally occurring and comparatively clean burning gas that is commonly used to fuel electricity generation.

Arrow's activities are integrated, in that they cover the spectrum of CSG activities ranging from exploration to production, transportation and electricity generation. Arrow has developed and operated a strong domestic gas supply business since 2004, and is currently working to explore and develop the vast and largely untapped CSG resources in Queensland.

Arrow is owned by Shell and PetroChina who formed a joint venture partnership to acquire Arrow in 2010.

## 2.2 Project Description

The Project development area extends over approximately 8,000sq.km located some 200 km south west of Mackay, with the bulk of the area extending from approximately 100 km north of Moranbah to approximately 100 km south of Moranbah. The extent of the Project development area is shown on Figure 2-1. The location of the Project's drainage areas are shown on Figure 2-2.

The Project involves the establishment, operation and decommissioning of approximately 4,000 production wells, two Central Gas Processing Facilities (CGPFs), two Water Treatment Facilities (WTFs), 33 Field Compression Facilities (FCFs), and associated workforce accommodation and logistics facilities. Activities associated with the Project including the drilling of production wells are expected to commence in 2015. Representative locations of the key Project facilities assessed as part of the SREIS RIA are shown on Figure 2-3.

To aid brevity a detailed reproduction of the project description is not included within this technical report. Instead readers who require a detailed description of the Project should refer to the Project Description chapter (Section 3) of the SREIS. Table 2-1 summarises the current Project description and compares it to that previously assessed as part of the EIS RIA. Section 6 of this report describes the Project's traffic generating activities sufficient to inform assessment of the Project's potential road impacts.

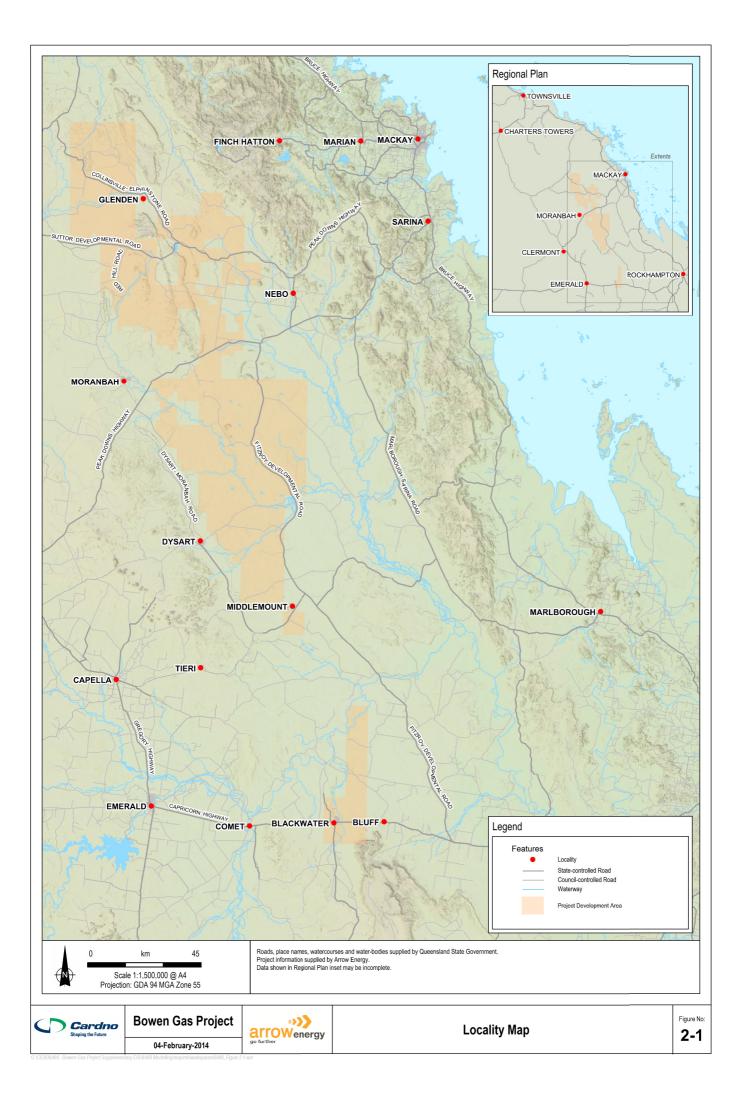
Summary of Project Description Changes				
EIS RIA Project Description	SREIS RIA Project Description			
2017 Ready for Start Up	2018 Ready for Start Up			
2016 first construction activity	2015 first construction activity			
2073 final decommissioning activity	2056 final decommissioning activity			
<ul> <li>8,000 km<sup>2</sup> Project development area</li> <li>14 development regions</li> <li>17 drainage areas (12 km radius)</li> </ul>	<ul> <li>8,000 km<sup>2</sup> Project development area</li> <li>9 development regions</li> <li>33 drainage areas (6 km radius)</li> </ul>			
Well count: 6,625	Well count: 4,000 (approximately)			
Estimated total water produced: 276,000 ML	Estimated total water produced: 153,000 ML			
<ul> <li>Well type: Surface-In-Seam Chevrons and Multi-seam hydraulically fractured</li> <li>No multi-well pads</li> </ul>	<ul> <li>Well type: Horizontal Surface-In-Seam Multi Branch Lateral (MBL) and Multi-seam hydraulically fractured</li> <li>Max of 6 MBLs on a multi-well pad</li> </ul>			
4 Integrated Processing Facilities (IPFs) including water treatment and nearby Accommodation Villages	2 CGPF with co-located WTF and Accommodation Villages The option of a third WTF in the Blackwater region remains to be confirmed for the second development stage The accommodation villages may be supported by temporary villages to minimise travel distances			
3 Gas (only) Processing Facilities.	No Gas (only) Processing Facilities			
10 FCF	33 FCF			
4 central depots located at IPFs	Marshalling Yard located in Mackay supported by two depots co-located with CGPFs			

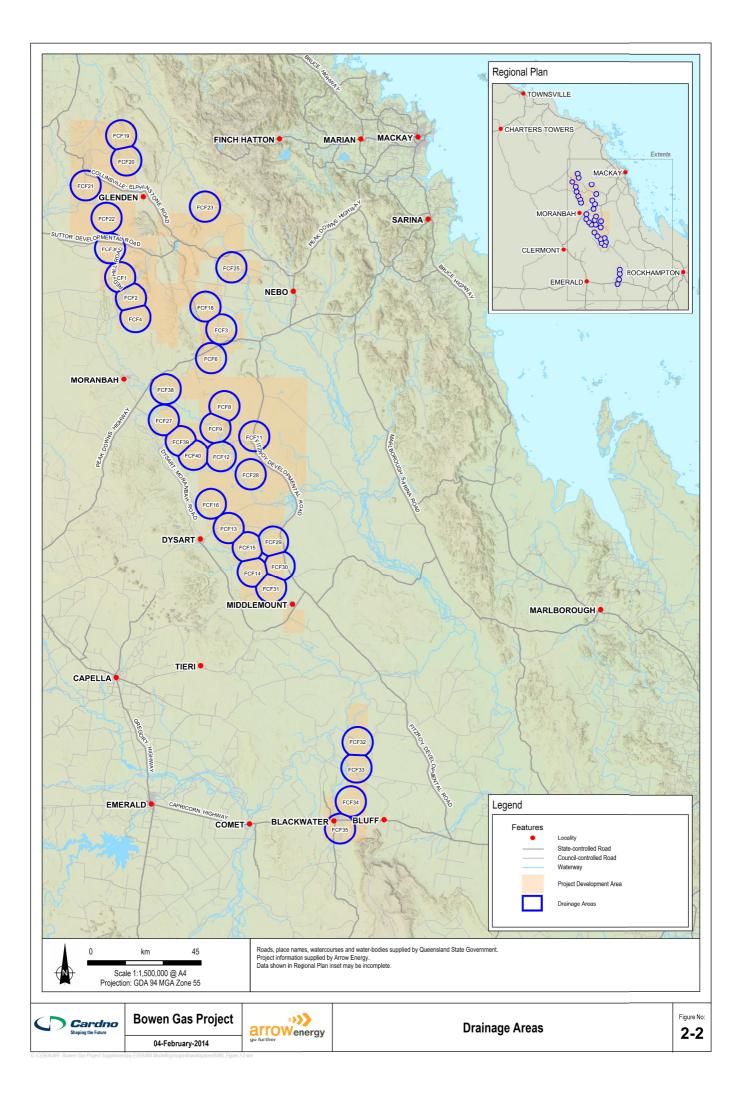
#### Table 2-1 Summary of Project Description Changes

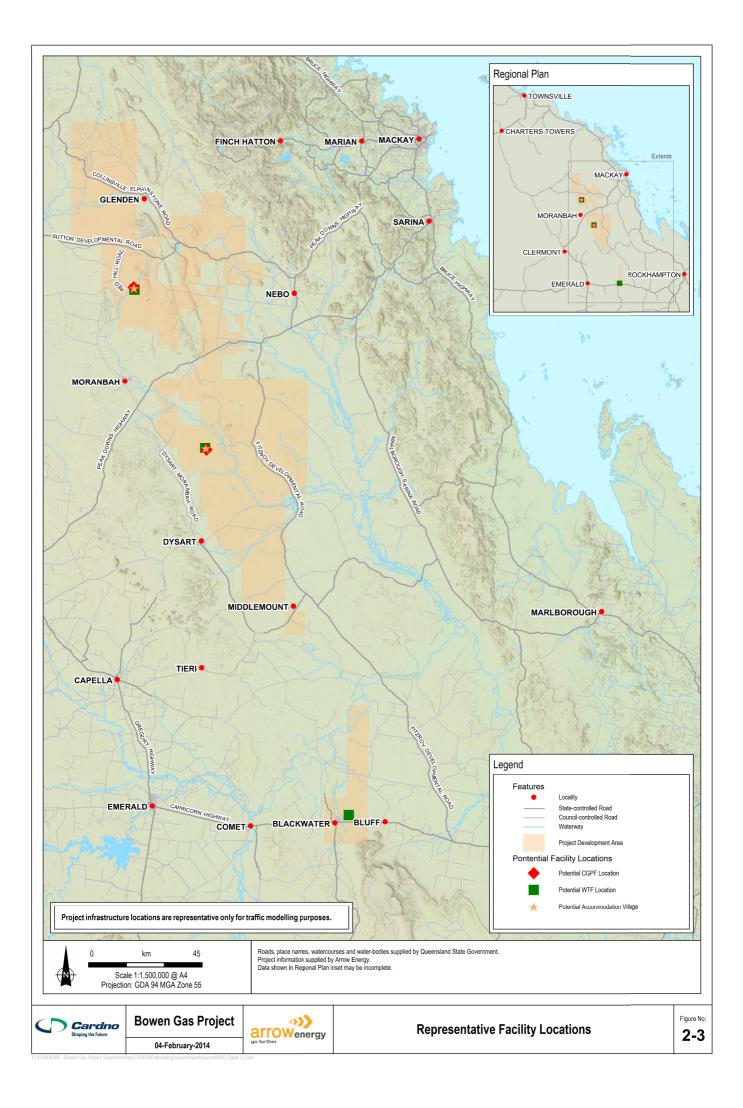
### 2.3 Project Schedule

For the purposes of the SREIS RIA, a Project schedule has been formulated which details potential establishment, operational and decommissioning periods for all wells and facilities associated with the Project. The assessed schedule has been prepared to present a worst-case development scenario from a traffic engineering perspective. In particular, the assessed Project schedule assumes rapid establishment of the wells and facilities supporting the Project. The schedule assumes that the majority of facilities are established in the year prior to the individual facilities commencing operations. In addition, the assessed Project schedule assumes that all 4,000 production wells (approximately) are ultimately established, operated and decommissioned. The number of production wells established may ultimately be less than the 4,000 production wells (approximately) assessed as a result of further optimisation of the Project.

The use of the assessed Project schedule therefore provides conservative (i.e. high) estimates of both the Project's peak traffic demands and the Project's total transport task. The adopted worst-case assessment approach provides road authorities confidence that the Project's road impacts are unlikely to be worse than that reported herein.







[This page has been left intentionally blank]

# 3 Assessment Overview

### 3.1 Need for Further Assessment

Since publication of the EIS for public comment in early 2013, the Project's field development plan and conceptual design has advanced. The advancement is the result of further exploration activities which have improved the understanding of the gas resource in addition to refinement of the planned development and operational processes.

The recent changes to Project planning warrant additional assessment to validate the impacts previously reported within the EIS RIA.

### 3.2 Road Related Conditions

This assessment has been undertaken on the basis that the road related conditions applied to the Project will establish the mechanisms by which the safety, efficiency and service life of the public road network will be maintained. It has been assumed that, consistent with other recently approved CSG projects, the road related conditions applied to the Project will establish broad requirements in relation to the following:

- > Post-EIS RIAs which will identify the Project's impact on the safety, efficiency and service life of the road network following detailed planning (i.e. post-EIS approval, site selection and road authority engagement).
- > Post-EIS Road-use Management Plans (RMPs) which will summarise the Project's transport task, transport routes, safety strategies and any required road upgrades or contributions.
- > Post-EIS Infrastructure Agreements (IAs) which will formalise the amount of and timing of any required contributions towards road upgrades or pavement activities identified in the Post-EIS RIAs.

### 3.3 Assessment Approach

The SREIS RIA presents a strategic assessment of the intensity and context of the potential road impacts associated with the Project. Impacts associated with other transport modes (e.g. sea, air, rail and pipeline) are beyond the scope of the SREIS RIA.

Typical of major projects with dispersed activity, detailed planning including the selection of all Project sites is yet to be finalised. The SREIS RIA therefore seeks to establish if there are likely to be any road impacts that cannot be effectively managed through the application of typical approval requirements, supported by the implementation of the planned management strategies. That is, the SREIS RIA seeks to confirm if there are likely to be any residual road impacts so significant (post-application of typical approval requirements and post-implementation of the planned management strategies) that would necessarily preclude approval of the Project.

Consistent with the intent of the SREIS assessment phase, the SREIS RIA does not seek to identify a comprehensive list of the proponent funded road works or contributions ultimately required to support the Project. The identification of all the specific works and contributions required to support the Project will occur via the preparation of Post-EIS RIAs. The specific works and contributions identified in the Post-EIS RIAs will ultimately be included in the Post-EIS IAs established with road authorities. This assessment approach is consistent with typical practice for large, geographically dispersed Projects in Queensland as a comprehensive list of works and contributions is not required to inform the drafting of effective EIS approval conditions.

### 3.4 SREIS RIA Methodology

The Terms of Reference (ToR) requires both the intensity and context of the Project's impacts to be assessed to establish the significance of the Project's potential impacts.

The SREIS RIA expands upon the work previously undertaken as part of the EIS RIA by applying both an environmental values assessment approach and a more traditional traffic engineering assessment approach.

The inclusion of both approaches within the SREIS RIA provides road authorities confidence that the planned management strategies will preserve key road environmental values whilst also exceeding or at least meeting typical traffic engineering practice requirements.

The following key steps were undertaken in preparing the SREIS RIA:

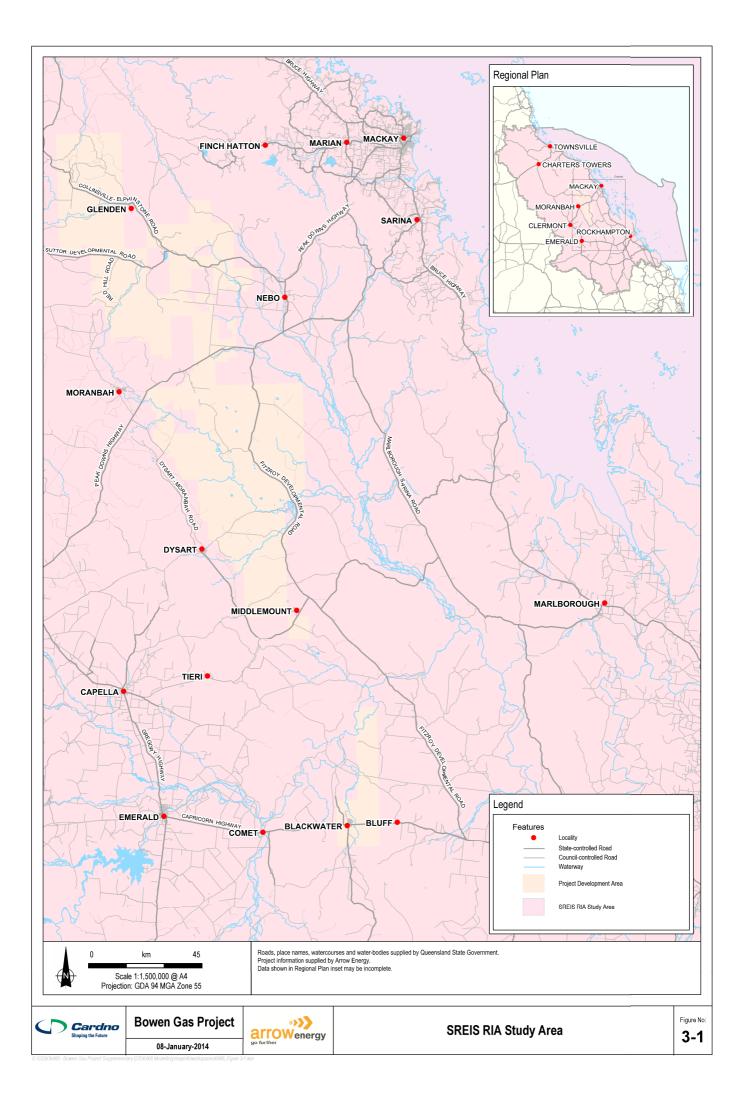
- > Collection of updated data from relevant authorities pertaining to existing road conditions including, for example, traffic volumes, traffic growth, vehicle crash history and pavement condition.
- > Inspection of the road network potentially servicing case study project sites to further characterise existing road conditions.
- > Review of historical traffic growth and consideration of potential future traffic growth associated with the cumulative impact of other Projects.
- > Estimation of the number and type of vehicles likely to be generated by the activities associated with establishment, operation and decommissioning of each of the different Project facilities types.
- > Estimation of the Project's traffic demands based upon consideration of the activities scheduled to occur in any given year, the traffic generation potential of each of the individual scheduled activities and the location of the activities.
- > Formulation of planned management strategies to avoid, minimise and mitigate the Project's potential road impacts.
- > Assessment of the effectiveness of the planned management strategies utilising both a traditional traffic engineering assessment approach and also an environmental values assessment approach.

The methodology undertaken for the SREIS RIA is appropriate to inform consideration of the effectiveness of the planned management strategies and to inform the drafting of EIS approval conditions.

### 3.5 Assessment Extents

The SREIS RIA has considered the impact of the Project's traffic on all roads, including both State and Council-controlled within the combined spatial extents of the Department of Transport and Main Roads (TMR) Mackay/Whitsunday Region, former Northern Region and former Fitzroy Region. The extents of the SREIS RIA Study Area are shown on Figure 3-1.

The use of former TMR region boundaries facilitates meaningful impact analysis compared to the use of the recently enlarged TMR region boundaries. The use of the recently enlarged TMR region boundaries would have resulted in the Project's reported impacts being substantially diluted. The adopted SREIS RIA Study Area extents are appropriate to inform consideration of the Project's impact by road authorities.



[This page has been left intentionally blank]

# 4 Legislative Overview

# 4.1 Context

The legislative context for the SREIS RIA was detailed in Section 3 of the EIS RIA. The legislative processes and powers utilised by TMR and Council road authorities presented within the EIS RIA remain current and therefore consideration of the processes and powers has not been reproduced herein to aid brevity. Should readers require information in relation to relevant legislative processes and powers they are directed to refer to the content previously presented within the EIS RIA.

[This page has been left intentionally blank]

# 5 Existing Road Conditions

### 5.1 Overview

To inform the SREIS RIA, existing condition data has been sourced for the road network in and within proximity to the Project development area. The data is provided as an update to that previously presented in the EIS RIA for an expanded set of roads. A comparison of the existing road condition data presented within the SREIS RIA compared to the EIS RIA is provided where relevant to identify any changes that have occurred in the underlying conditions since preparation of the EIS RIA. Relevant descriptions for the presented data are provided at Appendix A

### 5.2 Road Classification

### 5.2.1 Road Authority Jurisdictions

Figure 5-1 presents the TMR regions responsible for the State-controlled road network. In addition, the spatial extents of the Council-controlled road networks are shown on Figure 5-1. Former TMR region boundaries have been presented as they align with the SREIS RIA Study Area extents. The updated and expanded dataset identifies that no significant changes to the road authority jurisdictions have occurred since preparation of the EIS RIA apart from the amalgamation of TMR regions.

#### 5.2.2 Functional Road Hierarchy

Figure 5-2 summarises the functional hierarchy of the road network consistent with the definitions adopted within the EIS RIA, as follows:

- > Highway: a high order road facilitating connectivity between regional centres.
- > Regional Connecting Road: a high order road facilitating connectivity between townships.
- > Local Connecting Road: lower order road facilitating connectivity between higher order roads and/or facilitating access.

Further details of the typical characteristics of each road type are provided in Section 6 of the EIS RIA.

The definition of two roads has been refined since preparation of the EIS RIA. Firstly, the road previously referenced as Collinsville-Elphinstone Road (north of Glenden) is now referred to as the 'former Collinsville-Elphinstone Road' with the road previously referred to as Newlands Access Road forming what is now known as Collinsville-Elphinstone Road (west of Glenden). Given this, the SREIS RIA considers the former Collinsville-Elphinstone Road to be a Local Connecting Road while Collinsville-Elphinstone Road is considered to remain a Regional Connecting Road. Secondly, Dysart-Moranbah Road has been redefined as a Local Connecting Road due to its lower order nature when compared to alternative north-south routes such as the Gregory Highway and Fitzroy Developmental Road.

### 5.3 Traffic Characteristics

#### 5.3.1 Traffic Volumes

Figure 5-3 summarises the 2012 Annual Average Daily Traffic (AADT) volume data supplied by TMR for the State-controlled road network. The data is provided as an update to the 2011 AADT volume data included in the EIS RIA for an expanded set of roads. The updated AADT data is more disaggregated than that presented in the EIS RIA and therefore provides a better representation of the variability of traffic volumes along the various segments of individual roads. In particular, Figure 5-3 more accurately demonstrates the variability of traffic volumes along the Peak Downs Highway between Mackay and Nebo compared to the EIS RIA. The updated and expanded dataset identifies that accounting for the increased disaggregation of traffic volume data no significant changes in recorded AADT have occurred since preparation of the EIS RIA.

Table 5-1 summarises the Vehicle Kilometres of Travel (VKT) that occurred on the State-controlled road network during 2012, broken down by TMR region and vehicle class. These values provide a high level indication of the current (2012) level of transport facilitated by the State-controlled road network within the extents of the SREIS RIA Study Area. Similar statistics for the Council-controlled road networks are not

publicly available. VKT data was not previously presented in the EIS RIA and therefore consideration of changes that may have occurred since preparation of the EIS RIA is not warranted.

TMR Region	Light Vehicle VKT	Heavy Vehicle VKT	Total VKT
Former Fitzroy Region	1,924 million	451 million	2,375 million
Mackay/Whitsunday Region	1,720, million	284 million	2,004 million
Former Northern Region	1,349 million	174 million	1,522 million
SREIS RIA Study Area	5,185 million	986 million	6,171 million

Table 5-1 SREIS RIA Study Area Transport Demand (2012)

#### 5.3.2 Traffic Growth

Figure 5-4 summarises the ten year traffic volume growth data (2002 to 2012) supplied by TMR for the Statecontrolled road network. The data is provided as an update to the 2011 ten year growth data presented in the EIS RIA for an expanded set of roads. The updated road condition data is more disaggregated than that presented in the EIS RIA and therefore provides a better representation of the variability of growth rates experienced across the road network. The updated dataset identifies that accounting for the increased disaggregation no significant changes in the level of recorded traffic growth have occurred since preparation of the EIS RIA.

### 5.3.3 Pavement Loadings

Figure 5-5 summarises the 2012 Equivalent Standard Axle (ESA) loadings for the State-controlled road network. The existing loadings have been determined by applying the ESA factors for each vehicle class identified in Austroads *Research Report AP-R394-11 Establishment of a New Pavement Maintenance Database – Stage 1 and 2 Analysis* to classified AADT (2012) data supplied by TMR. TMR's Mackay/Whitsunday Region did not provide data for a portion of the road network not likely to be utilised by Project traffic, as a result data is not presented on Figure 5-5 for some sections of the State-controlled road network. Existing pavement loading data was not previously presented in the EIS RIA and therefore consideration of changes that may have occurred to road conditions since preparation of the EIS RIA are not warranted.

#### 5.3.4 Road Safety

Figure 5-6 identifies the location of all reported crashes based upon data supplied by TMR for the most recent available five year period (1 January 2006 to 31 December 2010) including crashes on both State and Council-controlled roads. In addition, Figure 5-6 presents calculated road section crash rates per 100 million VKT for the State-controlled road network for which AADT data is publicly available in a spatial format.

The calculated road section crash rates have been determined generally in accordance with the road section calculation methodology outlined within the Austroad's *Road Safety Engineering Risk Assessment Part 7: Crash Rates Database.* Adopting a similar calculation approach ensures that the calculated road section crash rates can be generally compared to the generic thresholds documented in the research report. In applying the Austroad's methodology a larger spatial buffer around each road section (ten times larger) has however been adopted for the SREIS RIA. This calculation approach is extremely conservative (i.e. results in higher crash rate estimates) as it tends to capture additional crashes which would not have been captured by the standard Austroads methodology. The adopted calculation approach ensures that the calculated road section crash rates are conservative estimates (i.e. high estimates) of the crash rate experienced. Readers should be aware of this level of conservatism bias in the calculated crash rates when comparing to the generic Austroads thresholds.

The Austroad's road safety report indicates that a road section crash rate of 52 crashes per 100 million VKT is typical for rural roads with undivided sealed carriageways in Queensland.

The crash data summarised on Figure 5-6 indicates that the majority of State-controlled road network has generally experienced lower than typically expected crash rates. The SREIS RIA applies the Austroad's methodology to the calculation of road section crash rates while the EIS RIA utilised an alternative methodology. The adoption of two different calculation methodologies results in variances in the reported crash rates and therefore does not allow direct comparison of the two datasets. The outcome of the SREIS

RIA crash data analysis is however generally consistent to the EIS RIA in concluding that the majority of the State-controlled road network has historically experienced lower than typically expected crash rates.

### 5.4 Infrastructure Attributes

### 5.4.1 Pavement Seal Width

Figure 5-7 summarises the pavement seal width data supplied by TMR between August and September 2013 for the State-controlled road network. The summarised seal width data is a weighted average over the road sections adopted for the SREIS RIA modelling. TMR's Mackay/Whitsunday Region did not provide data for a portion of the road network not likely to be utilised by Project traffic, as a result data is not presented on Figure 5-7 for some sections of the State-controlled road network. Pavement seal data was not previously presented in the EIS RIA and therefore consideration of changes that may have occurred to road conditions since preparation of the EIS RIA is not warranted.

#### 5.4.2 Road Roughness

Figure 5-8 summarises the road roughness data supplied by TMR between August and September 2013 for the State-controlled road network. The road data is based upon road surveys undertaken between 2009 and 2013. The presented road roughness data is a weighted average over the road sections adopted for the SREIS RIA modelling. TMR's Mackay/Whitsunday Region did not provide data for a portion of the road network not likely to be utilised by Project traffic, and as a result data is not presented on Figure 5-8 for some sections of the State-controlled road network. Road roughness data was not previously presented in the EIS RIA and therefore consideration of changes that may have occurred to road conditions since preparation of the EIS RIA is not warranted.

#### 5.4.3 Road Maintenance

Figure 5-9 summarises the road maintenance data supplied by TMR's Central Queensland and North Queensland Regions between August and September 2013 for the State-controlled road network. The identified annual road maintenance rates are for the time period of the supplied data for each road segment, typically being a recent five year period. The presented road maintenance data is an average over the road sections adopted for the SREIS RIA modelling. TMR's Mackay/Whitsunday Region did not make available detailed road maintenance data to inform the SREIS RIA and therefore maintenance rates are not presented on Figure 5-9 for the road network under its jurisdiction. Road maintenance data was not previously presented in the EIS RIA and therefore consideration of changes that may have occurred since preparation of the EIS RIA is not warranted.

#### 5.4.4 Rail Infrastructure

Figure 5-10 identifies existing rail infrastructure based upon data supplied by Queensland Rail in August 2013 and Aurizon in October 2013. The dataset presented as part of the SREIS RIA is more comprehensive than that previously presented and as a result identifies significantly more existing rail infrastructure than previously considered within the EIS RIA.

#### 5.4.5 Motorist Stopping Areas

Figure 5-11 identifies the location of motorist stopping areas based upon data supplied by the Queensland Government in August 2013. The updated data identifies that no significant changes to the location of motorist stopping areas have occurred since preparation of the EIS RIA.

### 5.5 Road Users

#### 5.5.1 Multi-Combination Vehicle Routes

Figure 5-12 identifies the designated Multi-Combination Vehicle (MCV) routes based upon data supplied by TMR in August 2013. The data is provided as an update to the data included in the EIS RIA. Figure 5-12 identifies that the MCV routes are less restrictive than previously presented in the EIS RIA. That is, all road train restrictions previously reported in the EIS RIA including for Dysart-Moranbah Road and for Collinsville-Elphinstone Road are understood to have been incorrect. It has therefore been assumed within the SREIS RIA that these previously reported restrictions will not influence the routing of Project traffic.

#### 5.5.2 School Bus Routes

Figure 5-13 identifies the location of school bus routes based upon data supplied by the Queensland Government in August 2013. The updated data identifies that no significant changes to school bus routes have occurred since preparation of the EIS RIA.

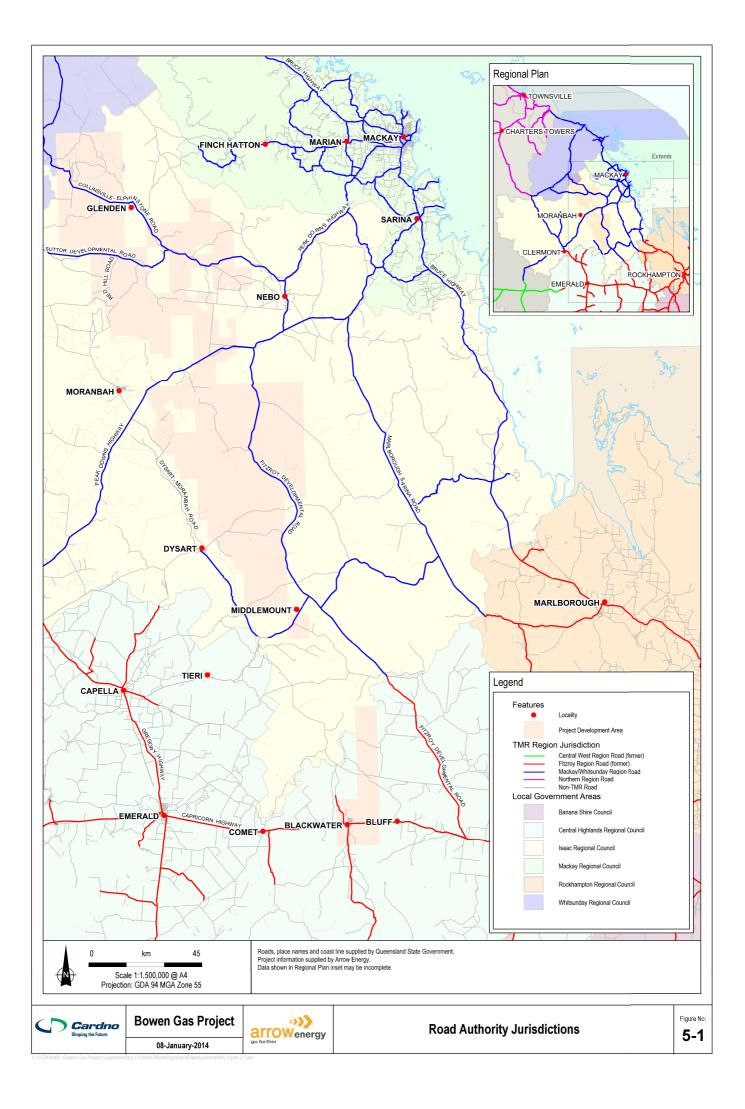
#### 5.5.3 Stock Routes

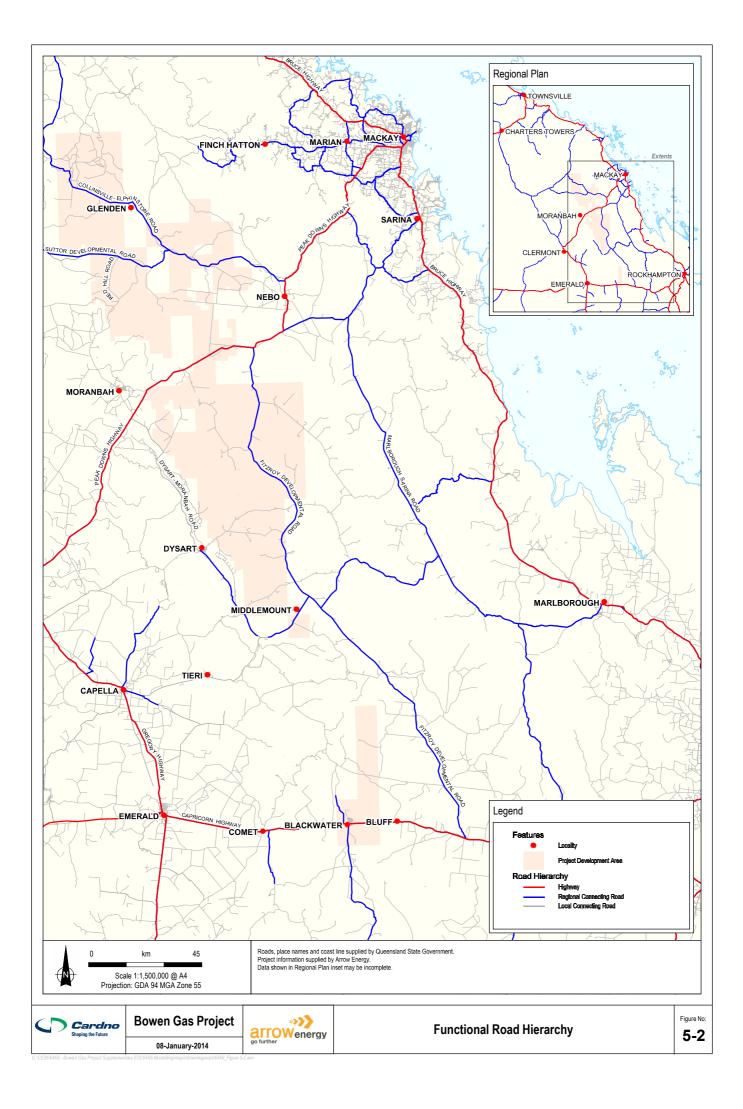
Figure 5-14 identifies the location of stock routes based upon data supplied by the Queensland Government in August 2013. The updated data identifies that no significant changes to stock routes have occurred since preparation of the EIS RIA.

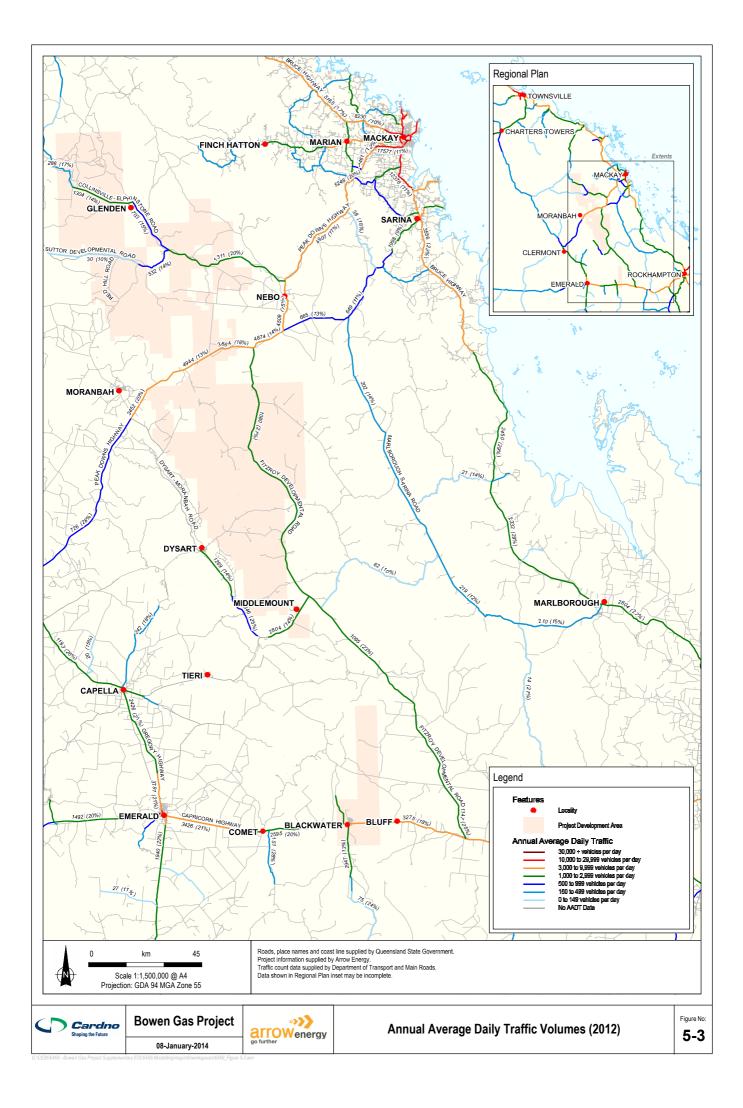
### 5.6 Active Transport

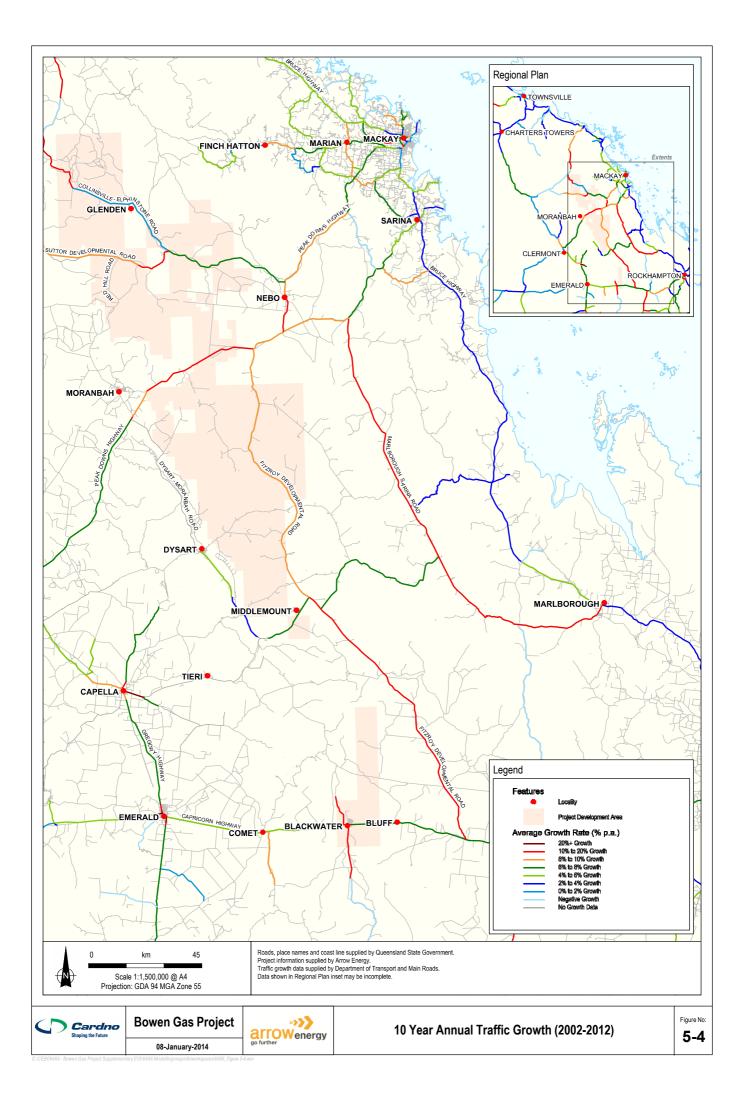
#### 5.6.1 Pedestrian and Cycle Networks

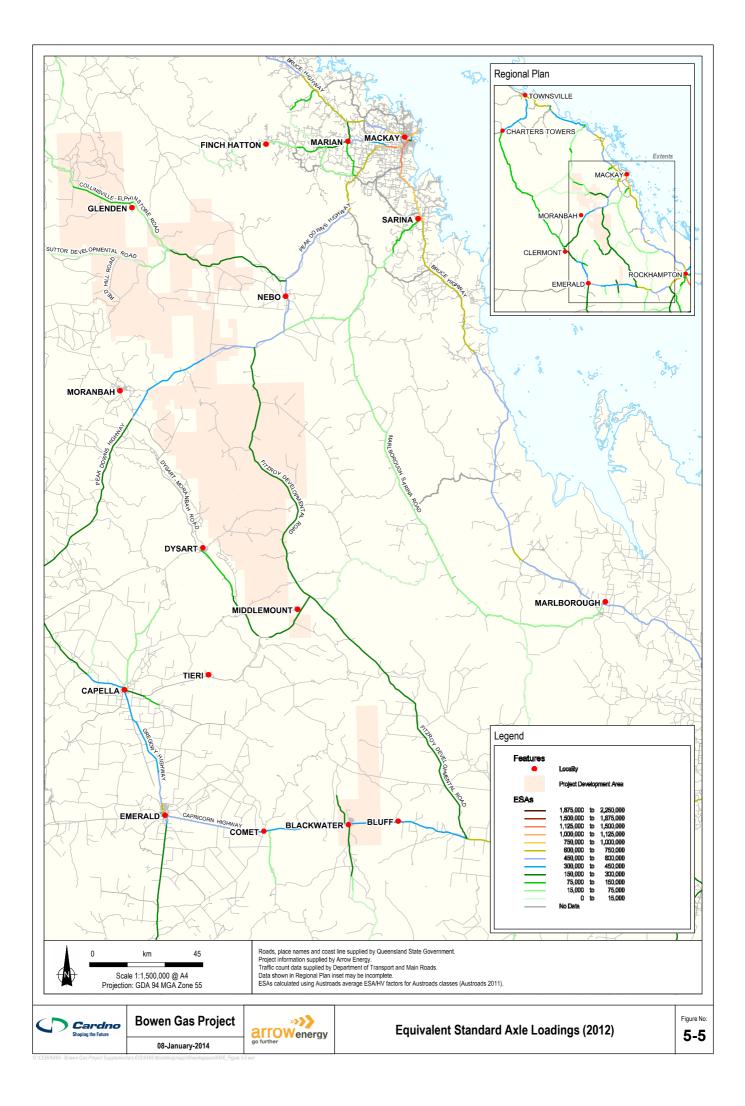
The majority of towns within proximity to the Project development area have basic pedestrian and cycle infrastructure in built-up areas. Roads outside of the townships typically do not include dedicated cycle facilities such as designated on-road cycle lanes. No significant changes to the pedestrian and cyclist networks have occurred since preparation of the EIS RIA.

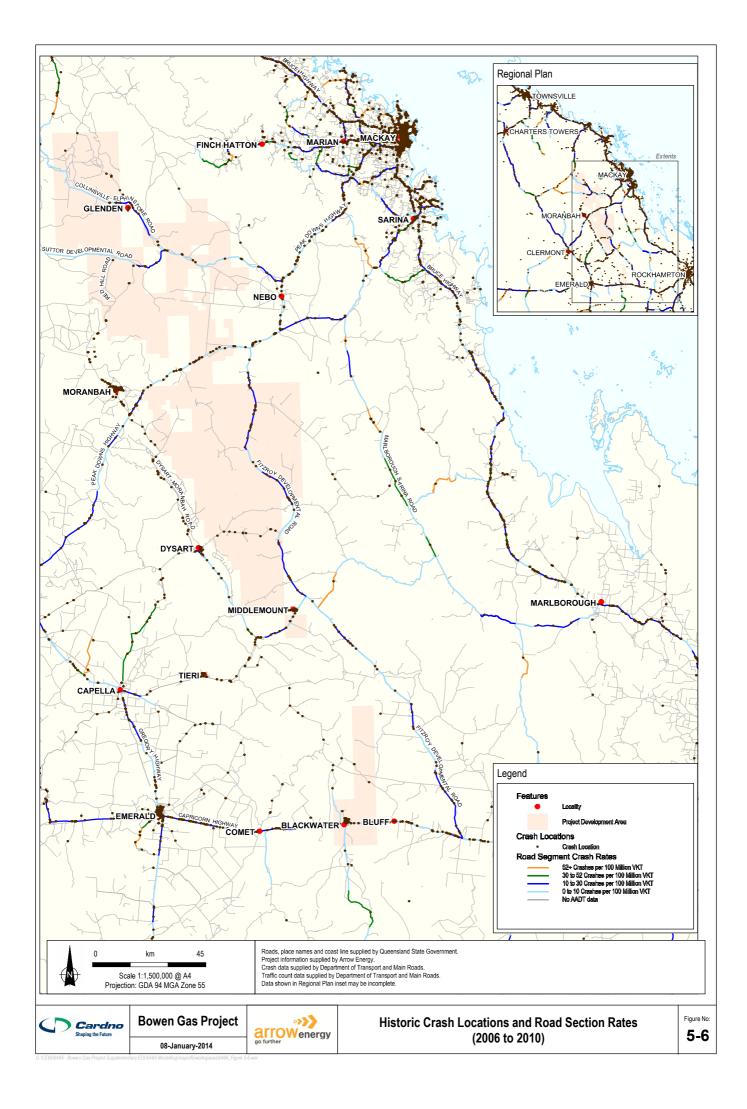


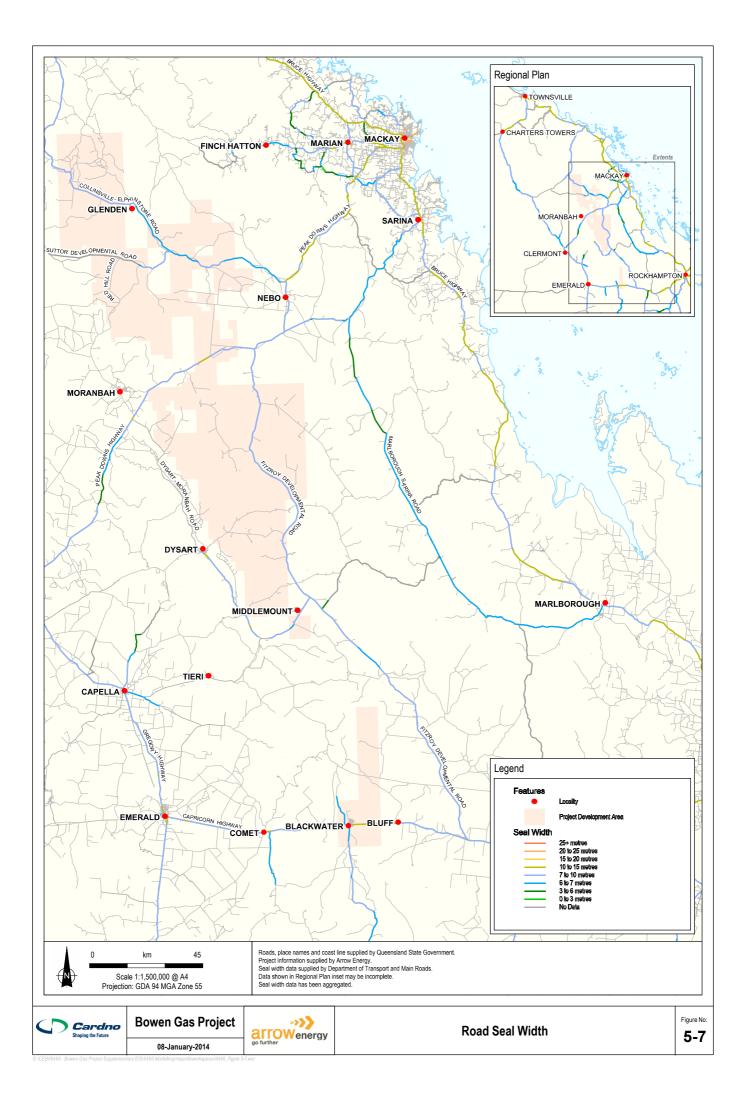


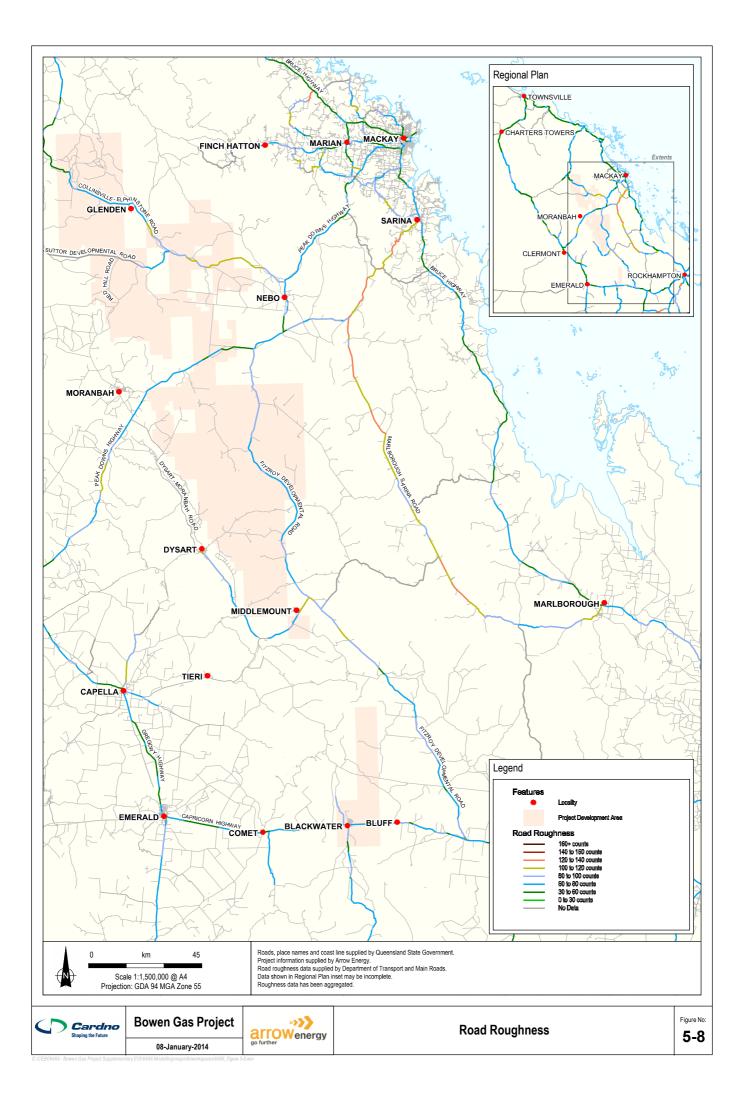


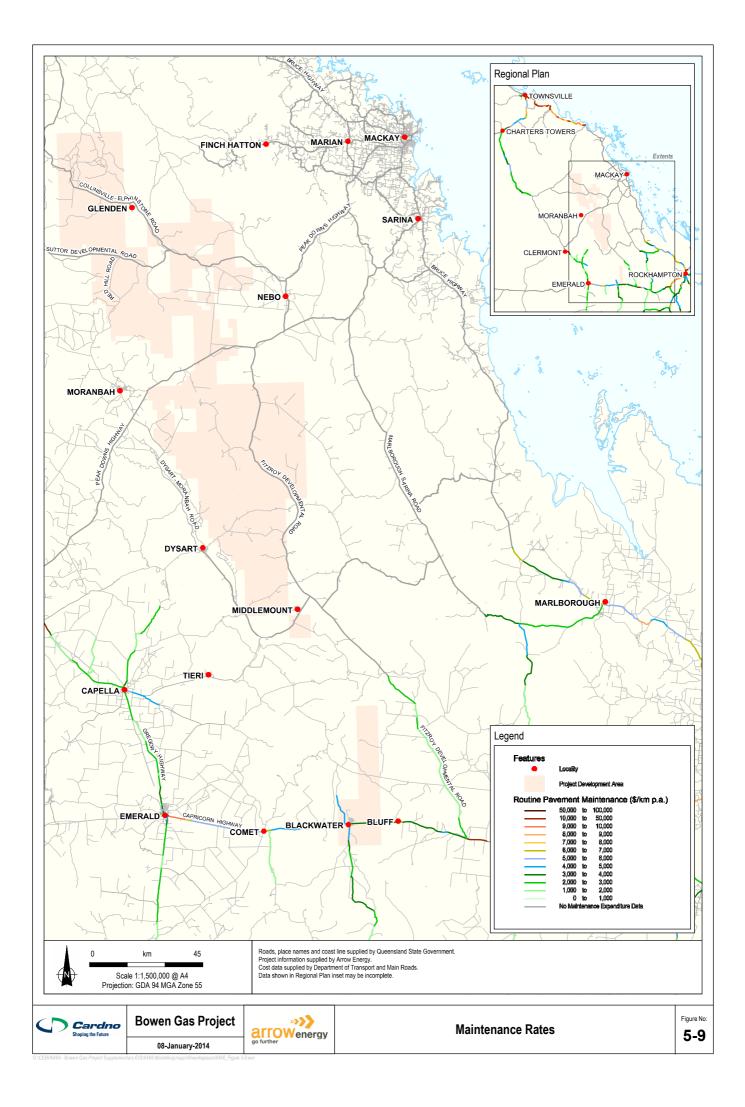


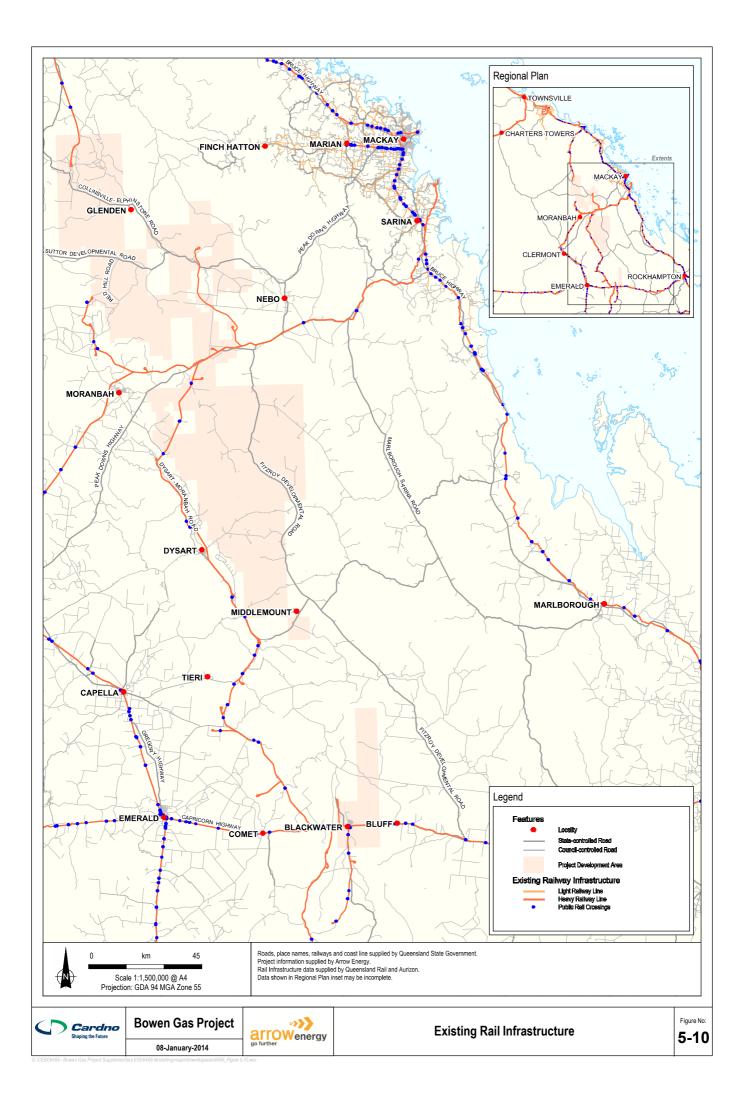


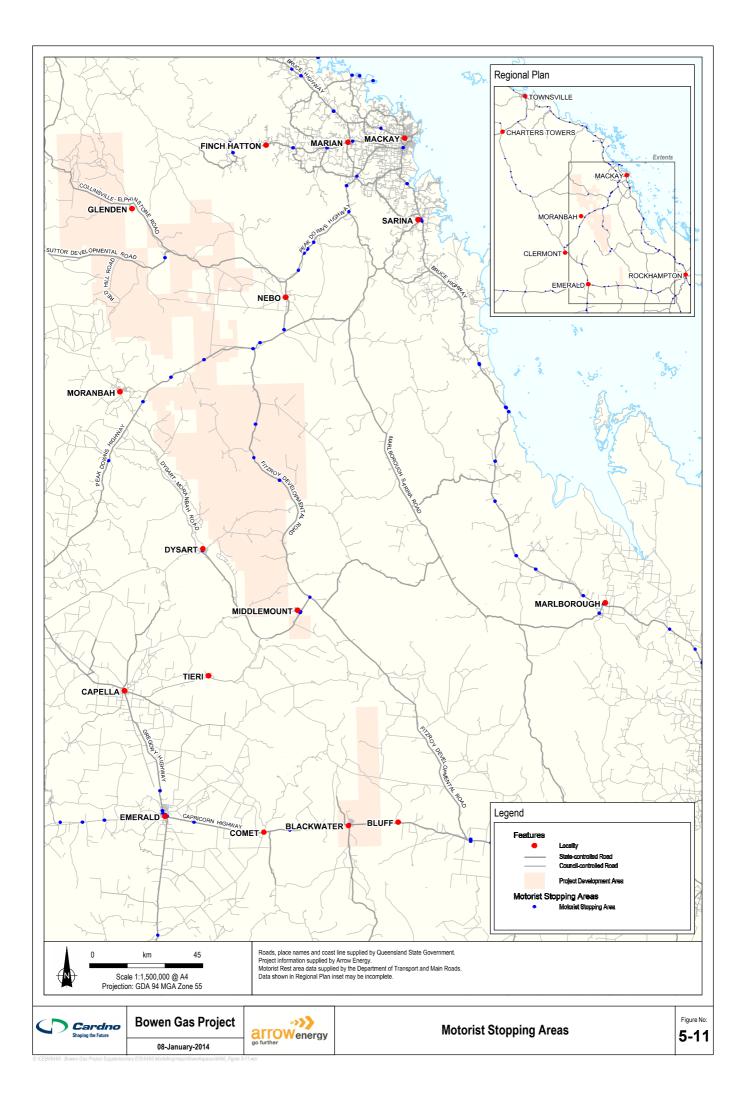


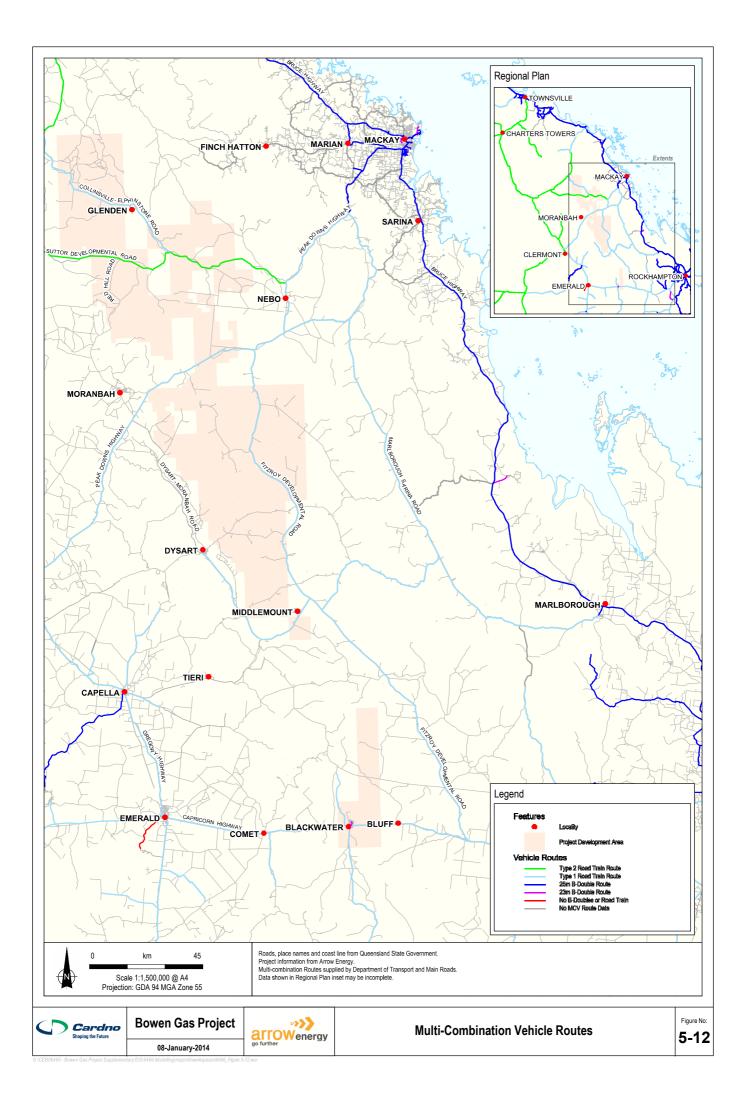


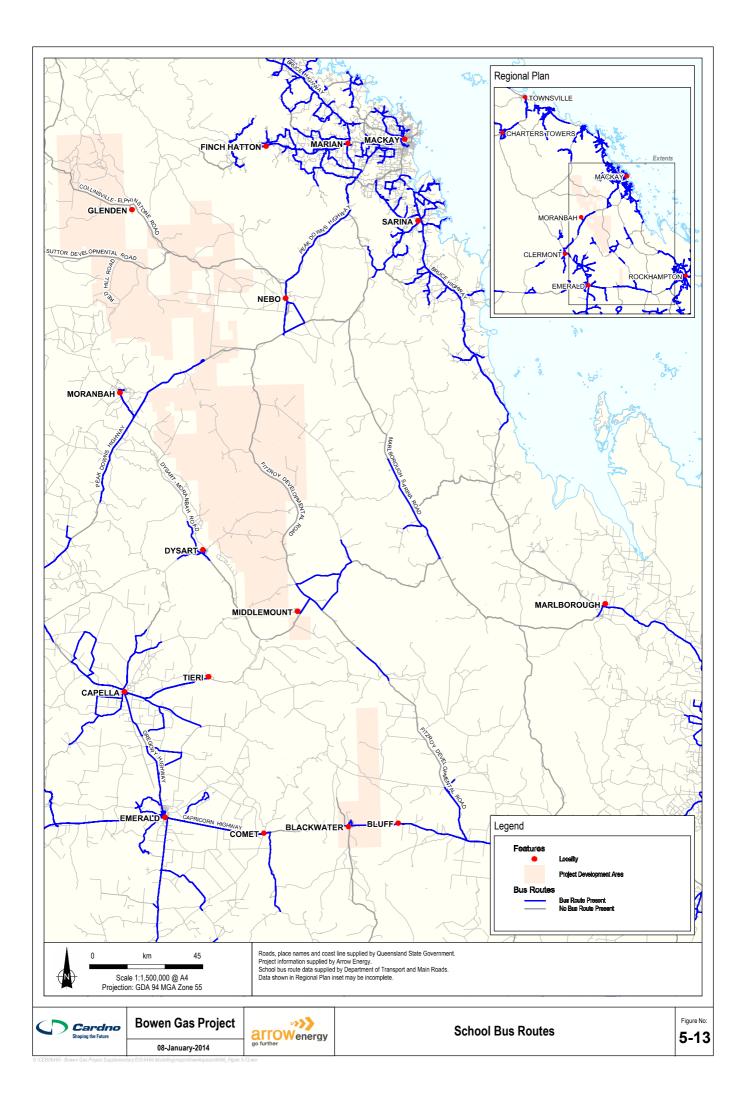


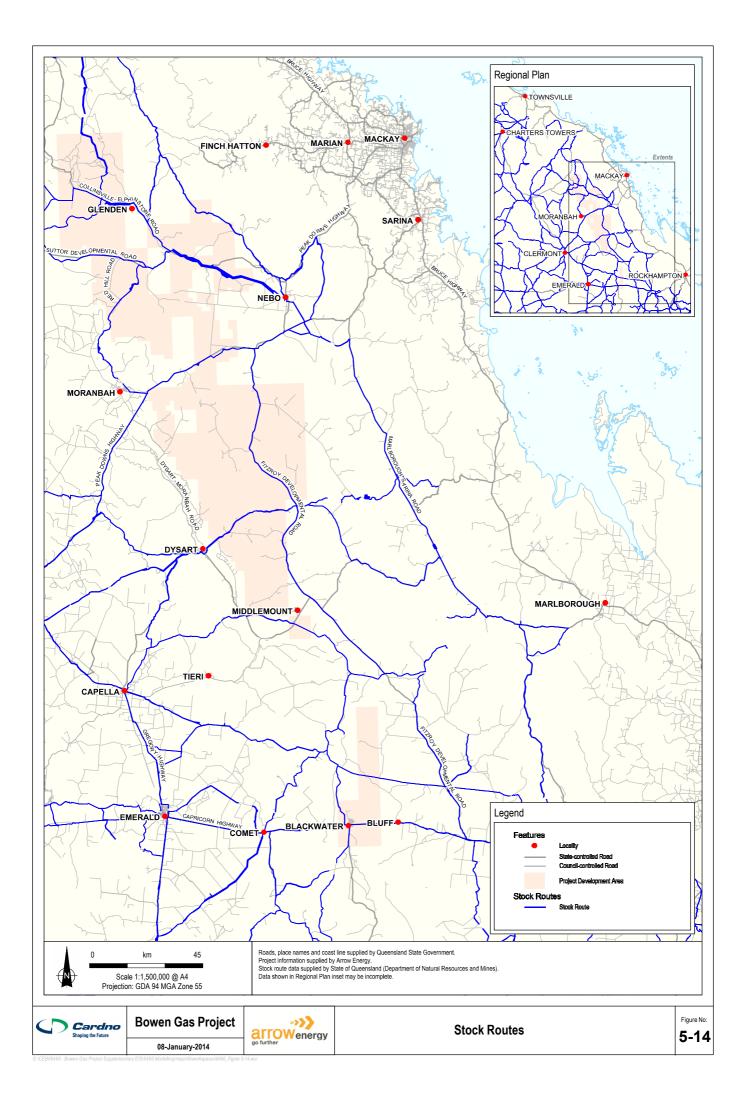












# 6 Future Baseline Traffic Forecasts

## 6.1 Other Projects with Potential Cumulative Impacts

Table 6-1 provides a summary of the projects recently commenced or currently under investigation in and within proximity to the Project development area with the location of the projects detailed at Appendix B. The project data is provided as an update to that presented within the EIS RIA.

Project	Proponent	Estimated Start Date	Estimated Project Duration
Caval Ridge Mine	BMA	2012	
Red Hill Mining Lease	BMA	2020	20-25 years
Daunia Mine	BMA	2011	30 years
Byerwen Coal	QCoal and JFE Steel	2012	50 years
Connors River Dam and Pipeline	SunWater	Unknown	Unknown
Ellensfield Coal Mine Project	Vale Australia	2012	20 years
Foxleigh Plains Project	Anglo Coal	2013	15 years
Minyango Project	Blackwater Coal	2014	25 years
Washpool Coal Mine Project	Washpool Coal	2012	16 years
Eagle Downs Coal Project	Bowen Central Coal Joint Venture	2012	47 years
Grosvenor Coal Project	Anglo Coal	2012	50 years
Middlemount Coal Project	Middlemount Coal	2011	Unknown
Eaglefield Expansion Project	Peabody	2012	22 years
Codrilla Coal Mine Project	Macarthur Coal	2012	13-14 years
Saraji East Coal Mine	BMA	2014	25-30 years
Arrow Bowen Pipeline	Arrow	2016	Ongoing
Northern Bowen Basin Transmission Network Reinforcement Project	Powerlink Queensland	2014	Ongoing
Goonyella to Abbot Point Rail Project	BHP Billiton Group	2015	Ongoing
Moranbah South Project	Anglo American Metallurgical Coal	2014	30 years
Central Queensland Integrated Rail Project	Aurizon	Pre 2016	Ongoing

Table 6-1 Other Projects Considered within SREIS RIA

Of the projects listed in Table 6-1, those with a higher traffic generating potential over an extended period of time are generally the larger resource projects predominately associated with gas and coal production. These projects typically have 20 to 40 year timeframes and therefore have the potential to contribute to traffic growth on the road network over the longer term and therefore influence cumulative impacts. However the infrastructure projects (e.g. rail or pipelines) would only impact regional traffic during their relatively brief (203 years) construction phases.

## 6.2 Future Baseline Traffic Demands

For the purposes of the SREIS RIA when forecasting future baseline traffic demands (i.e. in the absence of traffic associated with the Project) it has been assumed that a comparable level of traffic demand increase will continue to occur for the foreseeable future to that which has historically occurred. For example, if traffic demands on a particular road segment have increased by an average of 100 vehicles per year for the past decade than it has been assumed that the road segment will continue to experience an increase of 100 vehicles per year for the foreseeable future.

The data presented in Table 6-1 identifies that this assumption is conservative (i.e. results in high baseline traffic volume forecasts) as the number of projects anticipated to occur over the foreseeable future is substantially less than that which has occurred during the recent mining investment boom. The baseline traffic demand forecasting approach adopted for the SREIS RIA is considered to result in more representative forecasts than the global growth rate approach adopted for the EIS RIA. The forecasting approach adopted for the SREIS RIA aworst-case scenario has been assessed.

It is acknowledged that the Post-EIS RIAs undertaken to inform the Post-EIS IAs may need to include more localised consideration of the impact that other projects may have on future baseline traffic volumes. The adopted approach of projecting historic growth forward is however considered suitable to inform the SREIS RIA given the conservative forecasts produced.

### 6.3 Future Baseline Pavement Loadings

For the purposes of the SREIS RIA when forecasting future baseline pavement loadings it has been assumed that existing pavement loadings will increase at 3% per annum (linear). This generic global growth rate assumption is consistent with standard practice in Queensland as documented in TMR's *Assessment of Road Impacts of Development Proposals Notes for Contribution Calculations Version 28*.

The adopted forecasting approach for baseline pavement loadings utilising a global growth rate is considered to be conservative. The adopted rate of 3% growth per annum is anticipated to result in relatively low estimates of future baseline pavement loadings and therefore result in high estimates of the Project's proportional impact.

The adoption of an alternative forecasting methodology for baseline pavement loadings as compared to baseline traffic demands ensures that worst-case scenarios are assessed for service life and efficiency/safety impacts respectively. The adopted pavement loading forecasting approach is therefore appropriate to inform the SREIS RIA.

# 7 Project Activities

#### 7.1 Project Activities

The traffic generating activities undertaken as part of the Project have been classified by grouping activities into the three phases of the Project's lifecycle. Activities associated with different phases are likely to be undertaken concurrently across the Project development area. For example, early in the Project's lifecycle production wells will likely be operating adjacent to activity associated with the establishment of additional production wells. Similarly, later in the Project's lifecycle operation of major facilities will likely occur adjacent to activity associated with the decommissioning of nearby production wells.

Based upon Arrow's existing operations and strategic planning, the key traffic generating activities likely to be associated with the Project are as follows:

- > Construction activities:
  - Production well installation
  - Gathering infrastructure installation
  - Project facility establishment
- > Operation and Maintenance activities:
  - Production well operation and maintenance including well workovers
  - Gathering infrastructure operation and maintenance
  - Project facility operation and maintenance
- > Decommissioning and Rehabilitation activities:
  - Production well decommissioning and rehabilitation
  - Gathering infrastructure decommissioning and rehabilitation
  - Project facility decommissioning and rehabilitation.

The SREIS RIA assumes that the majority of delivery types will be co-ordinated from a single marshalling yard located in Mackay. However due to port infrastructure limitations at Mackay Port, it has been assumed that containerised materials will be initially transported by sea to Townsville Port and then transported by road to Mackay. Furthermore, it is anticipated that a limited number of deliveries will originate from Rockhampton. To avoid inefficient double handling it is also expected that bulk materials such as quarry products will be transported direct from suppliers to Project sites rather than via the marshalling yard located in Mackay.

### 7.2 Traffic Generation of Project Activities

Table 7-1 provides a summary of the traffic generation potential of each of the Project activities. A detailed breakdown of the traffic generating potential of each Project activity is summarised at Appendix C. These assumptions reflect the refined logistics planning which has occurred since preparation of the EIS RIA.

able /-1 ITallic Gell							
		Activity	External Traffic Generation (One-Way Trips per Facility)				
Activity	Quantity	Duration					
			Heavy Vehicle	Bus	Light Vehicle		
<b>Construction Activities</b> (trips are per facility <b>for the duration</b> of construction of each facility)							
Production Wells	4,078 wells	67 days	232	206	28		
Gathering Infrastructure	4,078 sections	8 days	95	14	-		
CGPFs	2 facilities	52 weeks	2,858	2,730	-		
WTF	3 facilities	52 weeks	9,126 <sup>1</sup>	764	-		
FCFs	33 facilities	26 weeks	1,516	728	-		
Village	2 villages	4 weeks	8,390	-	-		
<b>Operation and Maintenance Activities</b> (trips are per facility <b>for each year</b> of operation of each facility)							
Production Wells	4,078 wells	23 years	8	4	-		
Gathering Infrastructure	4,078 sections	23 years	-	-	-		
CGPFs	2 facilities	38 years	104	-	52		
WTF	3 facilities	30-39 years	2,200	-	52		
FCFs	33 facilities	9-37 years	20	-	52		
Village	2 villages	42 years	5,720	260	1,300		
(			I Rehabilitation Activition of decommissioning of				
Production Wells	4,078 wells	2 days	42	2	8		
Gathering Infrastructure	4,078 sections	2 days	30	-	-		
CGPFs	2 facilities	35 weeks	1,190	980	3,268		
WTF	3 facilities	32 weeks	680	1,972	6,572		
FCFs	33 facilities	17 weeks	424	238	794		
Village	2 villages	16 weeks	7,284	-	3,734		

#### Table 7-1 Traffic Generation Potential of Project Activities

<sup>1</sup>This conservatively assumes water for construction of dams is imported rather than using CSG water.

Table 7-1 conservatively assumes higher levels of heavy vehicle activity associated with most Project activities (i.e. results in higher Project heavy vehicle traffic forecasts) than considered within the EIS RIA to ensure a worst-case scenario is assessed. The updated estimates also reflect the stated intent to minimise the use of private vehicles by transporting the Project workforce by bus.

For the purposes of the SREIS RIA, activity durations have been identified to ensure that each individual facility is operational for the full life of the serviced drainage area/s. In some instances, the activity duration identified in Table 7-1 is longer than the typical operational life identified in the project description. The assessed activity durations are therefore conservative as they assume that Project facilities may potentially generate operational traffic for longer periods.

It is expected that the Post-EIS RIAs are likely to ultimately assess lower potential traffic generations as future logistics planning is expected to identify opportunities to further optimise Project transportation. Following completion of detailed logistics planning the use of lower Project activity traffic generation estimates will likely be able to be justified. However, in the absence of detailed logistics planning having occurred at this time, the assessment of the conservative traffic generation estimates presented in Table 7-1 ensures that the SREIS RIA presents a worst-case assessment.

## 8 Project Transport Task and Traffic Demands

### 8.1 **Project Traffic Model**

A strategic traffic model has been developed to forecast the transport task and traffic demands likely to be associated with the Project. The forecasting methodology adopted for the assessment utilises similar principles to that typically adopted for strategic modelling of urban areas. When developing an urban strategic model, the precise land parcels that will be developed during the assessed period are typically unknown. Instead, land with similar characteristics is grouped together such that reasonable predictions can be made about the level of activity likely to be generated in aggregate at the future design horizon. By aggregating the land parcels, it is possible to make reliable predictions about the level of development likely to occur and in turn the likely traffic generation of the aggregated land parcels at the future design year.

A similar situation exists for the Project. Planning has progressed sufficiently to enable a reasonable understanding of the total extent of infrastructure likely to be established across the Project development area. However the precise location of each component of Project infrastructure is still to be finalised post-EIS assessment, together with finalisation of detailed constraints analysis. It is known however that the production wells and multi-well pads will have a relatively constant spacing within each drainage area and that all other Project infrastructure will be located to service the wells. It is therefore possible to make reliable predictions about the level of activity likely to be generated by the Project across a broad area. The principals of this approach are consistent with that applied when strategically modelling an urban area and when considering the transport infrastructure required to support the modelled area.

A SATURN traffic model was developed to forecast the Project traffic demands for each year of the Project utilising the following methodology:

- > The infrastructure likely to be established, operated and decommissioned within each activity zone (e.g. drainage area or facility) was identified for each year of the Project life based on the development schedule provided by Arrow.
- > The traffic generation of each activity zone was forecast utilising the traffic generation rates summarised in Section 7.
- > The generated traffic from each activity zone was assigned to the external road network consistent with the origin and destination data presented in Appendix C.
- > Traffic volumes on each individual road link were identified for all Project years.

The SATURN traffic model included the following:

- > 4,454 modelled road links
- > 145 centroids representing the Project activity zones
- > 840 demands matrices for the 42 Project years and 20 vehicle types considered which included separate consideration of loaded and unloaded vehicles.

Figure 8-1 illustrates the traffic model elements. The representative locations have a relatively high level of disaggregation, which facilitates reasonably accurate Project traffic forecasts particularly on the higher order road links where fewer route choice options exist. The adopted forecasting approach is appropriate to inform decisions in relation to the effectiveness of the planned management strategies and the drafting of EIS conditions. The Post-EIS RIAs will capture any changes to the location of Project infrastructure that may occur during detailed planning as Arrow's appreciation of the constraints which may exist at Project sites is refined.

### 8.2 Forecast Project Transport Task

The total Project transport task represents the total VKT likely to be travelled by traffic associated with the Project on the State and Council-controlled road networks and the access networks internal to private land over the entire Project life within the extent of the SREIS RIA Study Area. The total Project transport task statistic provides a high level overview of the level of traffic activity potentially generated by the Project over its life.

#### 8.2.1 Project Transport Task

Table 8-1 summarises the total Project transport task estimated over the entire Project life by vehicle type while Chart 8-1 provides a stacked summary of the yearly profile of the Project transport task by vehicle type. The estimates are for the road network contained within the extent of the SREIS RIA Study Area.

Table 8-1 Project Transport Task by Vehicle Type

Vehicle	Project Transport Task (VKT)
Light Vehicle	33 Million
Buses	61 Million
Heavy Vehicle	274 Million
TOTAL	368 Million

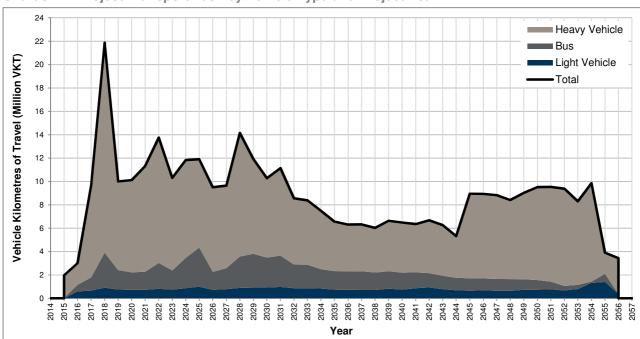


Chart 8-1 Project Transport Task by Vehicle Type and Project Year

Chart 8-1 indicates that the Project's peak transport task is anticipated to occur during 2018 which is significantly earlier than the 2045 timing previously identified in the EIS RIA. The 2018 activity spike reflects the Project schedule assessed as part of the SREIS RIA which conservatively assumes more rapid establishment of both wells and facilities as compared to the EIS RIA. The EIS RIA previously assumed that several hundred production wells per year would continue to be established as late as 2045 while the SREIS RIA assumes that the majority of wells will be established by 2030. Furthermore, Chart 8-1 reflects the SREIS RIA assumption that final decommissioning activities will occur around 2056 as compared to the EIS RIA that assumed final decommissioning activities will occur around 2073.

Chart 8-2 summarises the VKT that is anticipated to occur on TMR's, Isaac Regional Council's (IRC's), Central Highlands Regional Council's (CHRC), Mackay Regional Council's (MRC), Whitsunday Regional Council's (WRC) and Townsville City Council's (TCC) road networks as well as on private access roads.

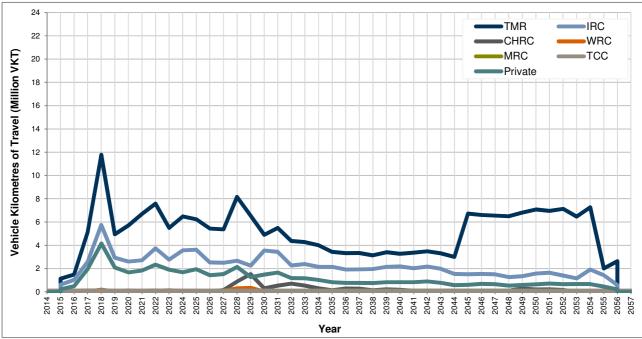


Chart 8-2 Project Transport Task by Road Authority

The results presented in Chart 8-2 indicate that the vast majority (84%) of the Project transport task is anticipated to occur on TMR's and IRC's road networks with 13% on private roads. Very limited travel (i.e. the remaining 3%) is forecast to occur on MRC's, WRC's, TCC's and CHRC's road networks.

#### 8.2.2 TMR's Road Network Project Transport Task

Chart 8-3 provides a stacked summary of the Project's transport task on the State-controlled road network over the Project life by vehicle type within the extent of the SREIS RIA Study Area.

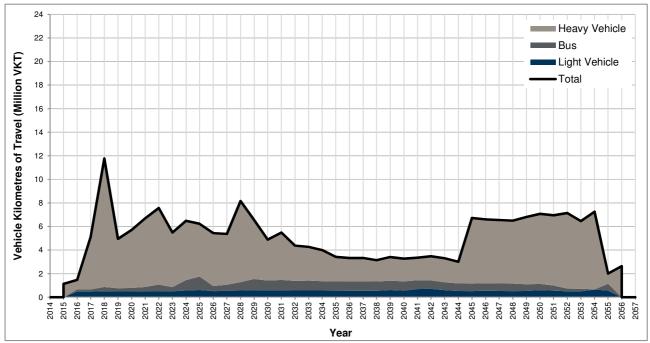


Chart 8-3 Project Transport Task on TMR Road Network by Vehicle Type

Chart 8-3 identifies that the State-controlled road network is expected to facilitate a higher portion of the Project's heavy vehicle transport task as compared to the Council-controlled road networks. This is a result of the origins and destinations typically associated with heavy vehicle movements being predominately serviced by the strategic State-controlled road network.

Chart 8-4 provides a further breakdown of the Project's transport task anticipated to occur on the Statecontrolled road network by TMR region including Mackay/Whitsunday Region, former Northern Region and former Fitzroy Region.

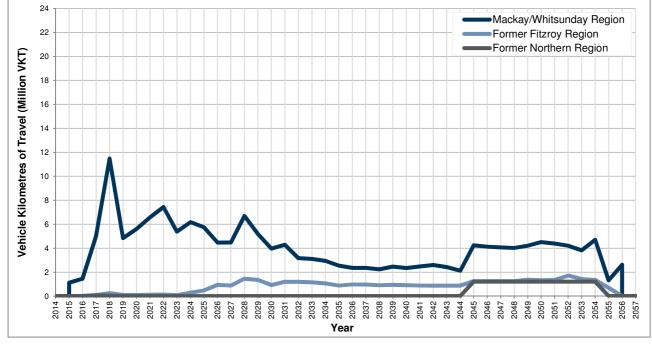


Chart 8-4 Project Transport Task by TMR Region

Chart 8-4 identifies that the majority of the Project's transport task on the State-controlled road network is expected to occur on the roads under the jurisdiction of TMR's Mackay/Whitsunday Region. Furthermore, the use of the former Fitzroy Region's road network by Project traffic is not anticipated to significantly occur until around 2024 once activity associated with the Project facilities in the vicinity of Blackwater commences. Finally, the use of the former Northern Region's road network is not anticipated to significantly occur until around 2045 being associated with the worst-case assumption of brine movement to a waste disposal facility in Townsville. It is noted that it is actually expected that a third-party landfill operator will pursue the commercial opportunity of developing a landfill local to the WTFs, and therefore the identified level of travel on the former Northern Region's road may not actually occur.

#### 8.2.3 Comparative Analysis of the Project Transport Task

Chart 8-5 summarises the level of travel anticipated to be generated by the Project on the State-controlled road network as a percentage of the level of travel that occurred within the extents of the SREIS RIA Study Area during 2012 on this network.

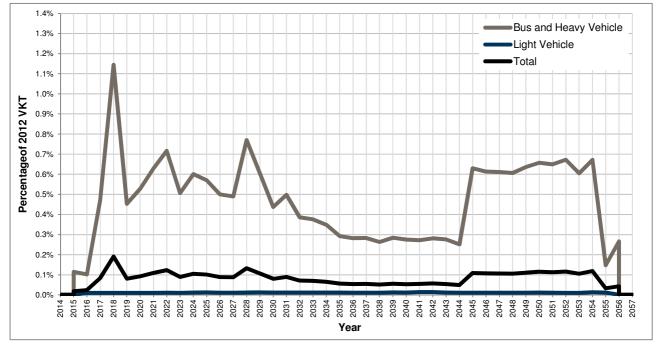


Chart 8-5 Project Impact on Existing (2012) Transport Task occurring within SREIS RIA Study Area

Chart 8-5 indicates that at its peak (around 2018) the Project is anticipated to increase the level of total travel facilitated by the State-controlled road network by approximately 0.2%. Bus and heavy vehicle activity is anticipated to increase by about 1.1% as a result of the Project.

#### 8.3 Forecast Project Traffic Demands

#### 8.3.1 Project Transport Task

Figure 8-2 summarises the total transport task performed by each individual road link over the full Project life. The modelling results presented on Figure 8-2 identify that the key roads servicing the Project will include the Peak Downs Highway, Dysart-Moranbah Road, Suttor Developmental Road, Collinsville-Elphinstone Road, Red Hill Road, Moranbah Access Road and the northern section of Fitzroy Developmental Road. Other roads in and within proximity to the Project development area will generally perform a lower order function from a Project logistics perspective.

#### 8.3.2 Project AADT

Figure 8-3 identifies the average Project AADT demands on each road link over the Project life. The modelling results presented on Figure 8-3 identify that the vast majority of the road network will experience an average increase in AADT of less than 40 vehicles per day as a result of the Project over the full Project life.

Figure 8-4 identifies the peak Project AADT demands for each individual road link over the full life of the Project. The highest peak Project traffic demands are expected to occur on the sections of the road network already identified as being the key roads servicing the Project. That is, the roads which perform the highest total transport task over the life of the Project are also expected to experience the highest peak Project AADT demands.

Figure 8-5 identifies the year in which peak Project AADT demands are anticipated to occur on each individual link. Importantly, the peak Project AADT demands are not anticipated to coincide for each individual road link with the peak demand years instead being generally spread over a 15 year period between 2015 and 2029. The exceptions to this generalisation are the two routes servicing Townsville which are anticipated to experience peak Project AADT demands between 2045 and 2055. The peak Project AADT demands between 2045 and 2055. The peak Project AADT demands on these two routes are associated with the default worst-case assumption of brine movement to a waste disposal facility in Townsville which has been assessed to occur late in the Project life.

Figures D-1 to D-42 at Appendix D summarise the forecast Project traffic demands for each individual road link for each individual Project year.

### 8.4 Comparison of EIS RIA and SREIS RIA Project Traffic Demands

Table 8-2 compares the Project traffic demands previously forecast within the EIS RIA as compared to the Project traffic demands now forecast as part of the SREIS RIA for 2045.

Road	Start End 2045 EIS Project Traffic AADT		2045 SREIS Project Traffic AADT	2045 SREIS as % of 2045 EIS	
	Mackay	Nebo	114	22	19%
Peak Downs Highway	Nebo	Fitzroy Developmental Road	72 11		15%
	Fitzroy Developmental Road	Coppabella	72	11-14	15%-19%
	Coppabella	Moranbah	93	14	15%
Capricorn Highway	Rockhampton	Dingo	231	0	-
	Dingo	Blackwater	57	1	2%
Suttor Developmental Road	Nebo	Elphinstone	116	5-25	4%-22%
	Elphinstone	Red Hill Road	265	29	11%
Collinsville - Elphinstone Road	Elphinstone	Glenden	166	13	8%
Collinsville - Elphinstone Road <sup>1</sup>	Glenden	Newlands Mine	166	0	-
Fitzroy	Mount Flora	Middlemount	106	1-5	1%-5%
Developmental	Middlemount	Junee Road	214	9	42%
Road	Junee Road	Dingo	214	1-9	1%-4%
Moranbah - Dysart Road	Moranbah	Dysart	378	18-41	5%-11%
Dysart -	Dysart	German Creek	357	5-18	1%-5%
Middlemount Road	German Creek	Middlemount	320	9	3%

Table 8-2 2045 Project Traffic Demands Comparison (EIS RIA vs. SREIS RIA)

<sup>1</sup>Previously referred to as Newlands Access Road

Table 8-2 identifies that the Project traffic demands forecast as part of the SREIS RIA process are significantly lower at 2045 as compared to the forecasts prepared as part of the EIS RIA process. This difference is largely attributed to the revised Project schedule assessed as part of the SREIS RIA as compared to the EIS RIA.

Table 8-3 compares the previously forecast EIS RIA 2045 Project traffic demands as compared to the peak Project demands forecast to occur on each individual link as part of the SREIS RIA.

Road			SREIS Peak Year(s) for Link	SREIS Peak Year Project Traffic AADT	Peak Year SREIS as % of 2045 EIS	
	Mackay	Nebo	114	2018	130	114%
Peak Downs	Nebo	Fitzroy Developmental Road	72	2018	97	135%
Highway	Fitzroy Developmental Road	Coppabella	72	2018,2025	53-115	74%-160%
	Coppabella	Moranbah	93	2018	66-95	71%-102%
Capricorn Highway	Rockhampton	Dingo	231	2018	3	1%
	Dingo	Blackwater	57	2026-2028	17-64	89%-112%
Suttor	Nebo	Elphinstone	116	2018	10-70	9%-60%
Developmental Road	Elphinstone	Red Hill Road	265	2018	51	19%
Collinsville - Elphinstone Road	Elphinstone	Glenden	166	2025-2029	37-49	22%-30%
Collinsville - Elphinstone Road <sup>1</sup>	Glenden	Newlands Mine	166	2029	19	11%
Fitzroy	Mount Flora	Middlemount	106	2018, 2021, 2022, 2024, 2028	20-182	19%-172%
Developmental Road	Middlemount	Junee Road	214	2028	21	10%
Road	Junee Road	Dingo	214	2026, 2028	17-21	8%-10%
Moranbah - Dysart Road	Moranbah	Dysart	378	2018,2030	49-147	13%-39%
Dysart -	Dysart	German Creek	357	2030, 2049, 2051	13-49	4%-14%
Middlemount Road	German Creek	Middlemount	320	2049, 2050	13-16	4%-5%

 Table 8-3
 Peak Year Project Traffic Demands Comparison (EIS RIA vs. SREIS RIA)

<sup>1</sup>Previously referred to as Newlands Access Road

Table 8-3 identifies a much higher level of consistency between the peak Project traffic demand forecasts prepared as part of the SREIS RIA as compared to the EIS RIA process. The comparative results still indicate variances between the two traffic forecasts however these differences can be attributed to Project planning refinement and the greater level of modelling sophistication informing the SREIS RIA.

### 8.5 Forecast Project Pavement Loadings

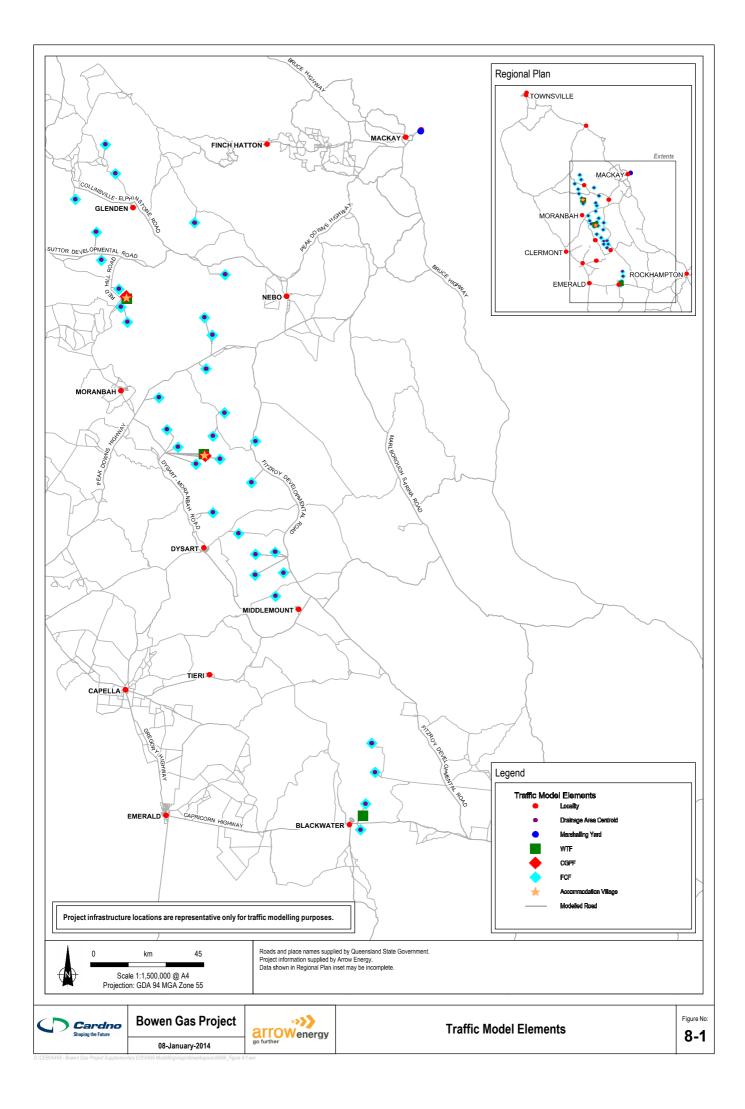
Figure 8-6 summarises the total pavement loadings measured in ESAs for each individual road link over the full life of the Project. The modelling results presented on Figure 8-6 generally align with the key roads servicing the Project identified on Figure 8-2. The forecast pavement loadings utilise loaded and unloaded ESA values for each class. This means that vehicles are conservatively assumed to be fully loaded when loaded.

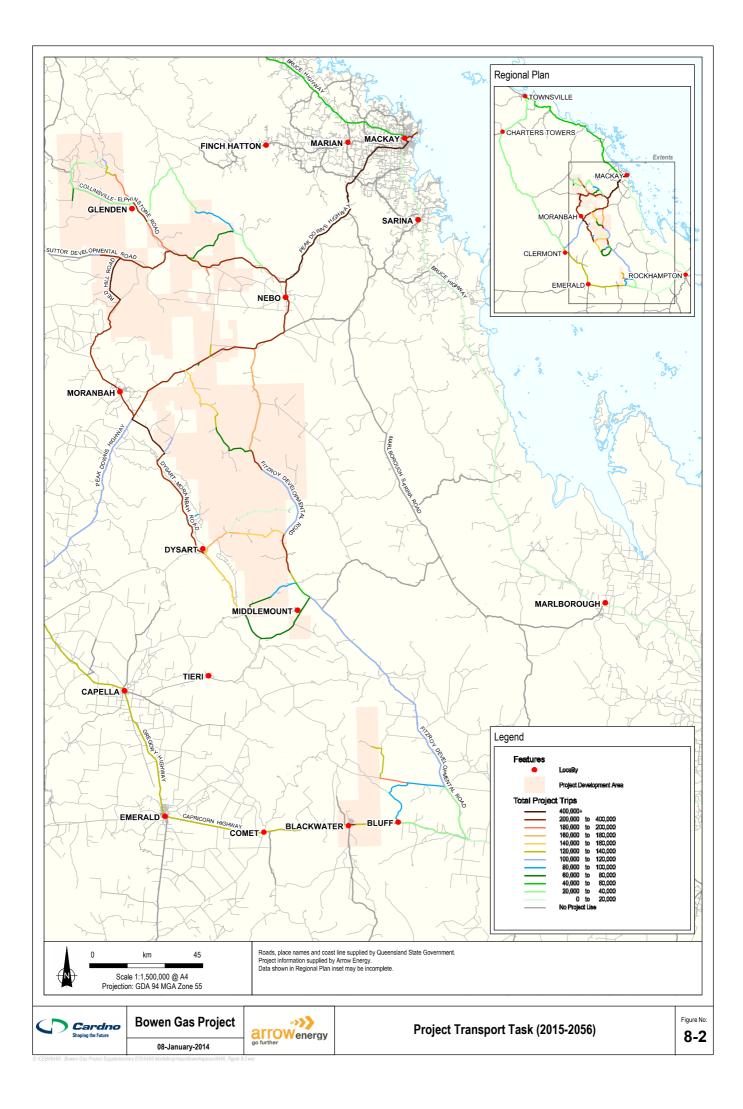
#### 8.6 Forecast Project Pedestrian and Cyclist Demands

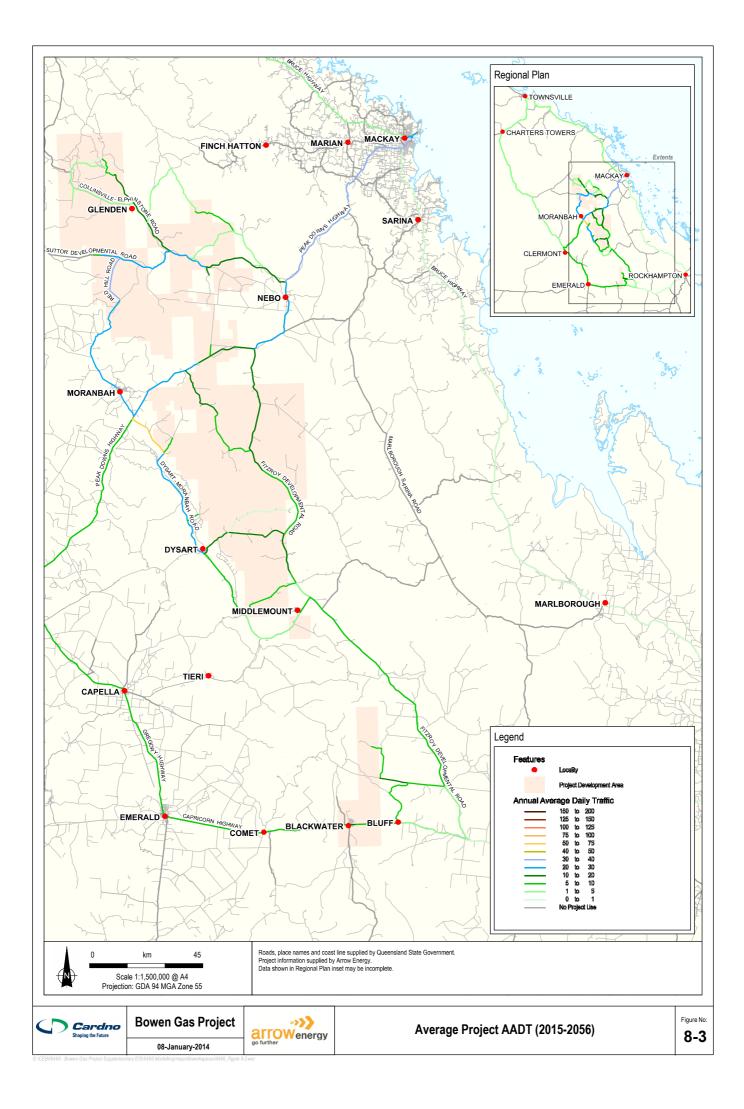
The Project will not significantly increase existing pedestrian or cycle demands on a broad scale and therefore modelling of pedestrian or cycle demands associated with the Project has not been undertaken.

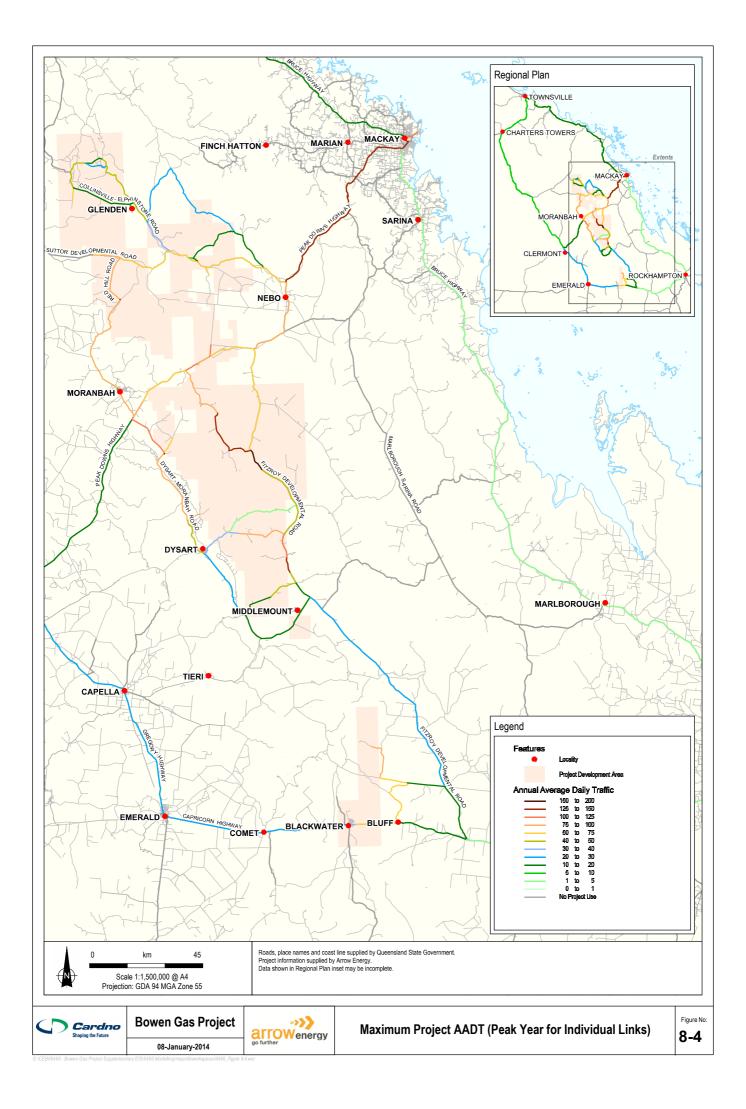
#### 8.7 Forecast Public Transport Demands

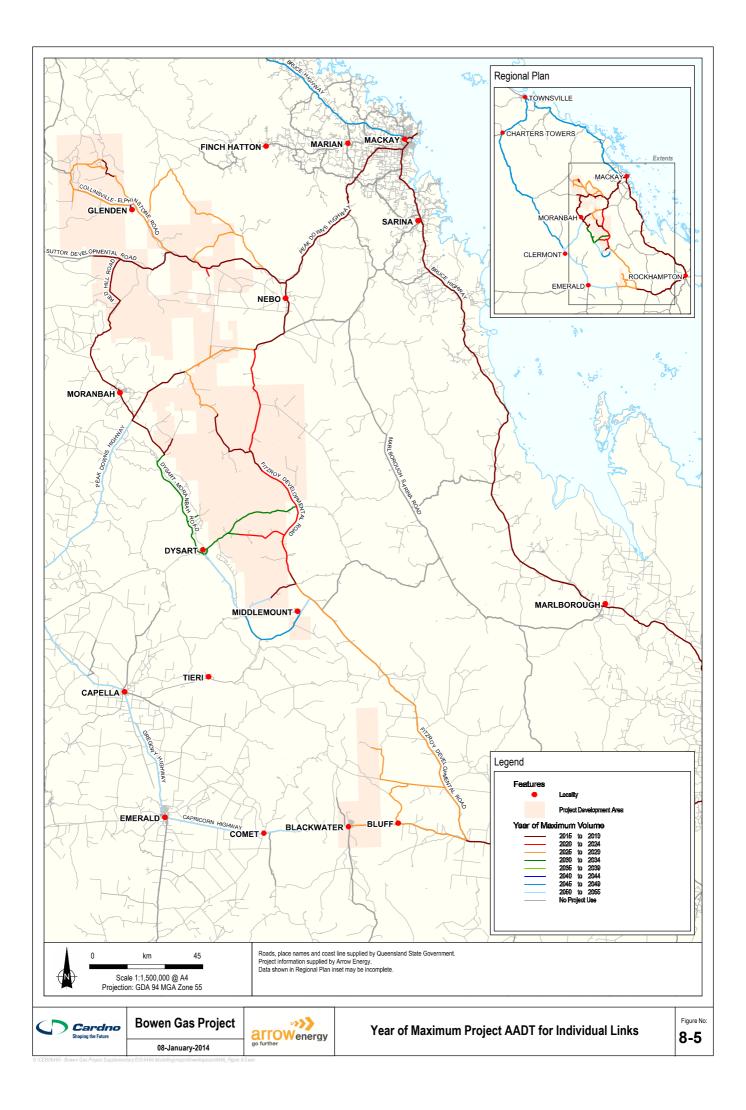
The Project will not significantly increase the demand for public transport services and therefore modelling of demands associated with the Project has not been undertaken.

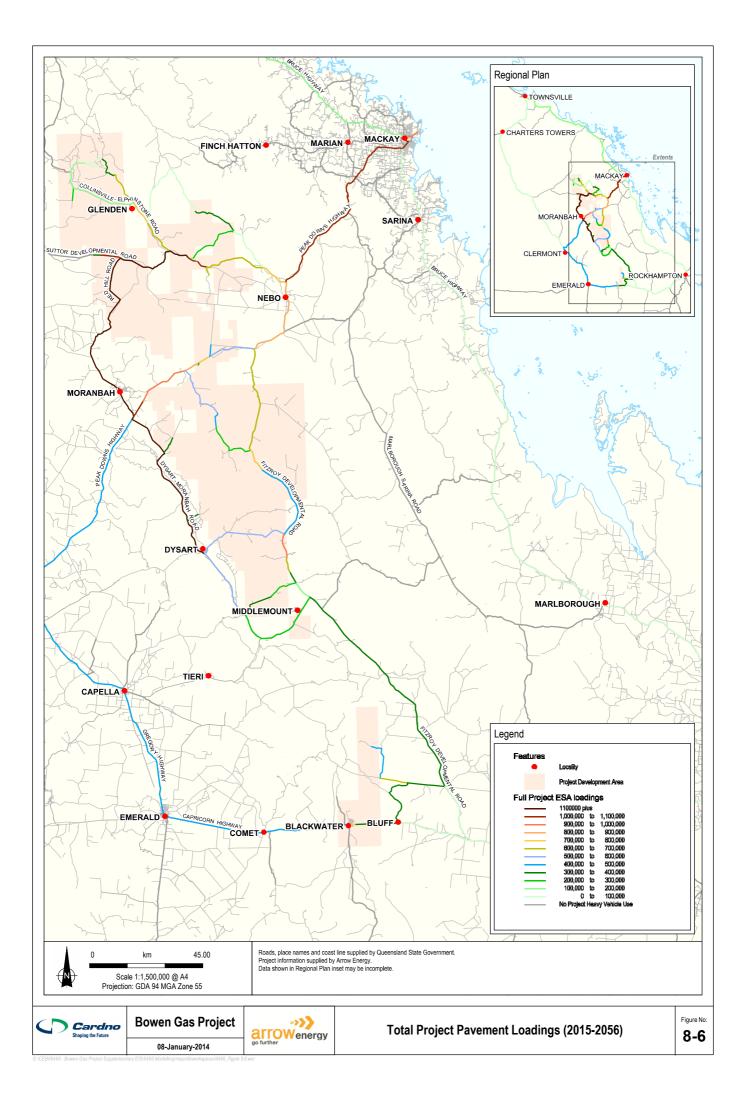












[This page has been left intentionally blank]

## 9 Literature Review

#### 9.1 Context

A literature review has been undertaken to collate best practice guidance in relation to appropriate traffic engineering thresholds to maintain the safety, efficiency and service life of the road network. The intent of the review has been to collate contemporary guidance in a concise format to inform the formulation of the planned road management strategies. The guidance is also presented to enable road authorities to interrogate the technical basis of the planned management strategies.

### 9.2 Best Practice Guidance

Table 9-1 summarises the best practice guidance relied upon when formulating the Project's planned road management strategies. Further details of the guidance are provided in Appendix E for a technical audience.

Aspect	Guidance	Section
Sealed Road	Austroads Rural Road Design Manual	E.1.1
Unsealed Road	ARRB Unsealed Roads Manual Guidelines to Good Practice	E.1.2
Intersection Performance	TMR Guidelines for Assessment of Road Impacts of Development RMS Guide to Traffic Generating Developments	E.2.1
Intersection Turn Treatment	Austroads Guide to Road Design Part 4A: Unsignalised and Signalised Intersections	E.2.2
Intersection Sight Distance	Austroads Guide to Road Design Part 4A: Unsignalised Intersections	E.2.3
School Bus Routes	TMR Guide for the Road Safety Management of Rural School Bus Routes and Bus Stops	E.3
Rail Crossings	Australian Level Crossing Assessment Model: Crossing Assessment Handbook	E.4

 Table 9-1
 Referenced Best Practice Guidance

[This page has been left intentionally blank]

## 10 Planned Management Strategies

#### 10.1 Overview

Management strategies have been formulated to manage the Project's potential impacts on the safety, efficiency and service life of the road network. The planned management strategies establish generic responses to common engineering situations which are likely to occur over the life of the Project. The strategies are typical responses only and consideration of site constraints will ultimately need to occur to ensure appropriate engineering outcomes are realised at each individual location. Nevertheless, the planned management strategies establish the framework upon which the works ultimately identified in the Post-EIS RIAs and included in the Post-EIS IAs will be determined.

As detailed in the EIS RIA the Post-EIS RMPs will summarise the specific management strategies ultimately required to be implemented at individual locations. The Post-EIS RMPs will be prepared in accordance with TMR's *Road-use Management Plan General Guidelines Document*. In preparing and maintaining the Post-EIS RMPs Arrow will engage with relevant stakeholders including TMR, Councils, Queensland Police Service (QPS), rail authorities, school bus operators and school principals.

The Post-EIS RMPs will include Fit for Use (FFU) Road Registers. The FFU Road Registers will identify the roads currently suitable or suitable after the application of management measures to accommodate Project traffic demands. The FFU Road Registers will also identify, where appropriate, any restricted hours that may apply to the use of individual roads. The FFU inspections will be undertaken prior to roads being significantly utilised by Project traffic and will be informed by road authorities engagement. The Post-EIS RMPs will identify how use of only the defined transport routes will be ensured throughout the life of the Project.

The Post-EIS RMPs will outline the permit condition and escort requirements for over-dimension vehicles and will define measures for vehicle movements particularly during and following wet weather periods. Transportation methods for hazardous and dangerous goods will also be detailed within the Post-EIS RMPs. Fatigue management measures including requirements in relation to induction training and the monitoring of motor vehicles via an In-Vehicle Monitoring System (IVMS) will be detailed. Measures to keep the community updated regarding Project progression and to address community concerns as the Project develops will also be identified.

The planned management strategies are detailed in Table 10-1 to Table 10-7. For example Table 10-2 identifies that typically it is expected that unsealed road sections which form part of the defined access route to a major facility such as a CGPF will be sealed to ensure safe and efficient access to the facility.

#### 10.2 Planned Management Strategies

 Table 10-1
 Management Strategies for Sealed Road Sections of Defined Access Routes

Facility Type	Strategies
All Facilities	<ul> <li>Undertake FFU inspections to identify if the existing condition of the sealed sections of the defined access route is suitable for the anticipated vehicle types and demands.</li> <li>Summarise any significant works required in Post-EIS RMPs and identify the value and timing of significant works in Post-EIS IAs.</li> <li>Establish within Post-EIS IAs contributions as appropriate towards increased pavement activities along the defined access route.</li> </ul>
<ul> <li>Well Site</li> <li>Gathering Infrastructure</li> <li>FCF</li> </ul>	<ul> <li>Implement requirements applicable to all facilities plus:</li> <li>Implement, as appropriate, temporary road management measures along the defined access route.</li> </ul>
<ul><li>CGPF</li><li>WTF</li><li>TWAF</li></ul>	<ul> <li>Implement requirements applicable to all facilities plus:</li> <li>Upgrade, as appropriate, the defined access route to a sealed two lane standard including sealed shoulders with appropriate line marking.</li> </ul>

Facility Type	Strategies
<ul> <li>All Facilities</li> </ul>	<ul> <li>Undertake FFU inspections to identify if the existing condition of the unsealed sections of the defined access route is suitable for the anticipated vehicle types and demands.</li> </ul>
	<ul> <li>Summarise any significant works required in Post-EIS RMPs and identify the value and timing of significant works in Post-EIS IAs.</li> </ul>
	<ul> <li>Establish within Post-EIS IAs an obligation to restore unsealed road sections along the defined access route to no worse a state of repair as compared with the condition at the start of significant Project activity.</li> </ul>
	<ul> <li>Establish within Post-EIS IAs contributions as appropriate towards increased road maintenance activities along the defined access route.</li> </ul>
	<ul> <li>Mitigate to the greatest extent feasible dust generated by Project traffic along the defined access route to minimise impacts to road safety and nearby homesteads.</li> </ul>
<ul> <li>Well Sites</li> </ul>	Implement requirements applicable to all facilities plus:
<ul> <li>Gathering Infrastructure</li> <li>FCF</li> </ul>	<ul> <li>Implement, as appropriate, temporary road management measures along the defined access route.</li> </ul>
CGPF	Implement requirements applicable to all facilities plus:
<ul><li>WTF</li><li>TWAF</li></ul>	<ul> <li>Upgrade, as appropriate, the defined access route to a sealed two lane standard including sealed shoulders with appropriate line marking. Alternatively establish an agreement with the road authority to maintain the defined access route to a well maintained gravelled road standard.</li> </ul>

 Table 10-2
 Management Strategies for Unsealed Road Sections of Defined Access Routes

#### Table 10-3 Management Strategies for Intersections along Defined Access Routes

Facility Type	Strategies
<ul> <li>All Facilities</li> </ul>	<ul> <li>Undertake FFU inspections to identify if the existing condition of the intersections along the defined access route is suitable for the anticipated vehicle types and demands.</li> <li>Summarise any significant works required in Post-EIS RMPs and identify the value and timing of significant works in Post-EIS IAs.</li> <li>Ensure appropriate sight distances are achieved at intersections along the defined access route.</li> </ul>
<ul> <li>Well Site</li> <li>Gathering Infrastructure</li> <li>FCF</li> </ul>	<ul> <li>Implement requirements applicable to all facilities plus:</li> <li>Implement, as appropriate, temporary traffic control measures at intersections along the defined access route.</li> </ul>
<ul><li>CGPF</li><li>WTF</li><li>TWAF</li></ul>	<ul> <li>Implement requirements applicable to all facilities plus:</li> <li>Construct, as appropriate, turn lane treatments at intersections along the defined access route. The use of short turn lane treatments is to be avoided where possible.</li> </ul>

#### Table 10-4 Management Strategies for Rail Crossings along Defined Access Routes

Facility	Strategies
All Facilities	<ul> <li>Consult with rail authorities and where appropriate undertake a threshold assessment to determine if upgrading of a rail crossing is warranted.</li> </ul>
	<ul> <li>Implement, as appropriate, temporary traffic control measures or other works as determined from the threshold assessment.</li> </ul>
	<ul> <li>Summarise any significant works required in Post-EIS RMPs.</li> </ul>

Facility	Strategies
All Facilities	<ul> <li>Consult with road authorities to confirm the location of sub-standard bridges for the anticipated vehicle types and demands along the defined access route.</li> </ul>
	<ul> <li>Undertake FFU inspections, as appropriate, to confirm the existing condition of the bridges along the defined access route.</li> </ul>
	<ul> <li>Investigate, as appropriate, alternative routes which avoid the use of sub-standard bridges.</li> </ul>
	<ul> <li>Summarise any significant bridge works required in Post-EIS RMPs and identify the value and timing of significant works in Post-EIS IAs.</li> </ul>

Table 10-5 Management Strategies for Bridges along Defined Access Routes

Table 10.6	Management	Stratogias f	or Sobool	Rue Poutos	along	Dofined	Access	Poutos
	manayement	Shaleyies h		Dus noules	along	Denneu	ACCC33	noules

Facility	Strategies
All Facilities	<ul> <li>Identify within the Post-EIS RMPs FFU Roads Register the road sections along which school buses operate.</li> </ul>
	<ul> <li>Identify within the Post-EIS RMPs measures to limit or manage Project traffic on the road sections utilised by school bus routes during pick-up and set-down times on school days.</li> </ul>
	<ul> <li>Inform the Project workforce of the presence of school bus routes as well as typical pick-up and drop-off times.</li> </ul>

Table 10-7	Management	Strategies	for Stock	<b>Routes along</b>	Defined	<b>Access Routes</b>
------------	------------	------------	-----------	---------------------	---------	----------------------

Facility	Strategies			
All Facilities	<ul> <li>Realign or replace any permanent disruptions to the stock route network with corridors of similar width and suitable country type to allow for the uninterrupted flow of travelling stock.</li> </ul>			
	<ul> <li>Rehabilitate any part of the stock route network disturbed or affected by Project activities including the provision of native vegetation including pastures to return the stock route to its natural state.</li> </ul>			
	<ul> <li>Consider the interaction between stock and freight routes and implement risk management procedures as necessary including increased signage and communications with land owners on the location of stock.</li> </ul>			

[This page has been left intentionally blank]

## 11 Management Strategies Application

#### 11.1 Overview

This section applies the planned management strategies documented in Section 10 to the defined access routes servicing case study Project facility locations to provide "real-world" examples of the road network outcomes achieved. It is noted that the assessed case study project sites and the associated defined access routes are representative only and subject to further environmental, social, engineering and commercial constraints analysis during detailed Project planning post-EIS approval.

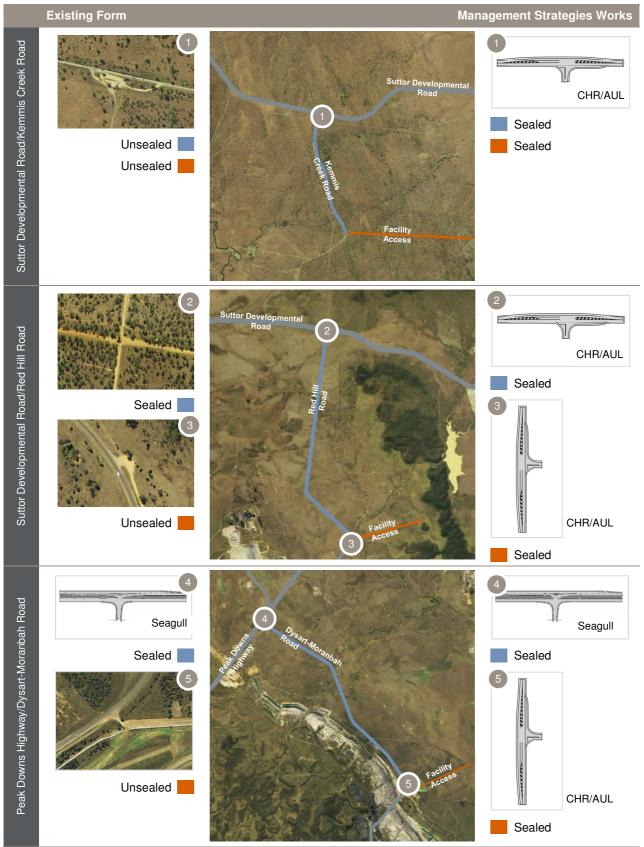
### 11.2 Case Study Management Strategy Applications

Field inspections were undertaken during October 2013 to inform the case study application of the planned management strategies. During the field inspection preliminary defined access routes were identified for each of the case study Project facility locations based on the existing road conditions. The planned management strategies have been applied to each of the defined access routes servicing the case study locations.

As an example Table 10-2 outlines the following management strategies for the unsealed road sections of the defined access route servicing a major facility such as a CGPF:

- > Undertake FFU inspections to identify if the existing condition of the unsealed sections of the defined access route is suitable for the anticipated vehicle types and demands.
- > Upgrade, as appropriate, the defined access route to a sealed two lane standard including sealed shoulders with appropriate line marking. Alternatively establish an agreement with the road authority to maintain the defined access route to a well maintained gravelled road standard.
- > Summarise any significant works required in Post-EIS RMPs and identify the value and timing of significant works in Post-EIS IAs.
- > Establish within Post-EIS IAs contributions as appropriate towards increased road maintenance activities along the defined access route.
- > Establish within Post-EIS IAs an obligation to restore any road sections not ultimately sealed along the defined access route to no worse a state of repair as compared with the condition at the start of significant project activity.
- > Mitigate to the greatest extent feasible dust generated by Project traffic on any road sections not ultimately sealed along the defined access route to minimise impacts to road safety and nearby homesteads.

Figure 11-1 provides a summary of the collective outcome of applying the planned management strategies to the defined access routes servicing the case study project sites. It is important to note that for the unsealed sections of the defined access routes an agreement could alternatively be established with road authorities to maintain the unsealed road sections to a well maintained gravelled road standard. This would include an obligation to restore roads to no worse a state of repair as compared with the condition at the commencement of significant Project activities and to mitigate the generation of dust by Project traffic.



#### Figure 11-1 Management Strategies Case Study Outcomes

# 12 Traditional Traffic Engineering Assessment

### 12.1 Overview

The SREIS RIA expands upon the work previously undertaken as part of the EIS RIA by documenting both a traditional traffic engineering assessment in addition to an updated environmental values assessment. Both assessments undertaken to support the SREIS RIA seek to determine the significance of the residual road impacts post-application of typical approval conditions and post-implementation of the planned management strategies. The inclusion of both approaches within the SREIS RIA provides road authorities greater certainty that the impact of the Project can be effectively managed.

The traffic engineering requirements applied in this assessment are consistent with the principles established within TMR's *Guidelines for Assessment of Road Impacts of Development* (GARID). The GARID assessment approach is utilised in Queensland to identify the specific management strategies such as intersection upgrades and proponent contributions towards pavement maintenance that can reasonably be conditioned.

### 12.2 Scoping Assessment

A scoping assessment has been undertaken to identify the extent of the road network over which Project traffic demands may potentially significantly increase surveyed traffic demands in accordance with GARID requirements. The GARID states that road impacts should be considered at all direct accesses to the road network. In addition, the GARID stipulates that all intersections and links where Project traffic demands exceed 5% of surveyed traffic demands should also be assessed.

Figure 12-1 identifies the locations at which Project traffic demands are anticipated to increase existing AADT traffic demands (2012) by 5% or more. The SREIS RIA scoping assessment is based upon consideration of the Project's maximum traffic impact on each individual road link for all years of the Project, not for a single Project year as previously documented in the EIS RIA. In addition, the SREIS RIA scoping assessment is based upon unadjusted 2012 surveyed traffic demands. That is, the reported proportional impact of Project traffic demands is relative to 2012 surveyed traffic demands not 2045 forecast baseline traffic demands as previously reported in the EIS RIA.

The SREIS RIA scoping assessment identifies that the Project has the potential to increase existing AADT demands on three State-controlled roads being Fitzroy Developmental Road, Collinsville-Elphinstone Road and Suttor Developmental Road. This finding is generally consistent with the outcome previously documented within the EIS RIA which identified that the Project has the potential to increase baseline AADT demands on a limited number of roads.

#### 12.3 Level of Service Assessment

Level of service relates to the operating conditions encountered by traffic. It is a qualitative measure of factors such as speed, trip time, interruptions, interference, freedom to overtake, ability to manoeuvre, safety, comfort, convenience and vehicle operating costs.

The performance of the scoped road links were analysed including and excluding project traffic using the link level of service methodology detailed in Austroad's *Guide to Traffic Engineering Practice Part 2 Roadway Capacity.* Table 12-1 identifies the level of service for each scoped link during the future year in which Project traffic demands are forecast to be greatest for each individual link. The level of service assessment accounts for the traffic growth associated with the cumulative impact of other projects.

Road	Chainage	Baseline Level of Service	With Project Level of Service
Collingville Elphinetone Road (5207)	23.124km to 29.71km	А	А
Collinsville-Elphinstone Road (5307)	55.116km to 79.739km	А	А
Suttor Developmental Road (82A)	0km to 88.65km	А	A
Eitzrov Dovelopmental Read (85C)	133.155km to 147.285km	А	А
Fitzroy Developmental Road (85C)	182.775km to 192.12km	А	A

#### Table 12-1 Level of Service Assessment for Significantly Impacted Road Sections

Table 12-1 identifies that all scoped road sections will continue to operate at a level of service "A" irrespective of the presence of Project traffic demands. The level of service assessment has therefore identified that while Project traffic demands are likely to significantly increase baseline traffic demands on sections of the road network; this increase is unlikely to significantly affect the level of service afforded by the assessed road network. This finding is generally consistent with the outcome previously documented within the EIS RIA which also identified that the Project would not significantly affect the level of service afforded by the road network.

It is therefore concluded that the scale of traffic demand increases associated with the Project can be effectively managed through the application of typical EIS approval requirements including the obligation to reassess potential impacts during detailed design within Post-EIS RIAs.

#### 12.4 Pavement Impact Assessment

Proponents are typically required to make contributions towards road authorities having to undertake increased pavement activities as a result of the pavement loadings associated with Project traffic. Contributions are typically required towards the costs associated with both significantly increased annual pavement maintenance activities and the costs associated with significantly bringing forward the timing of pavement rehabilitation activities.

Figure 12-2 identifies the potential increase in pavement maintenance activities based on the increase in future pavement loadings and accounting for the proportion of maintenance activity attributable to heavy vehicle activity. The reported impact is the worst-case impact for the two travel directions of each individual road link. Figure 12-3 summarises the extents over which Project pavement loadings are likely to significantly increase future pavement maintenance activities by more than 5% for any year of the Project. Chart 12-1 identifies the length of the State-controlled road network over which Project traffic demands are likely to significantly increase future pavement maintenance activities for each Project year.

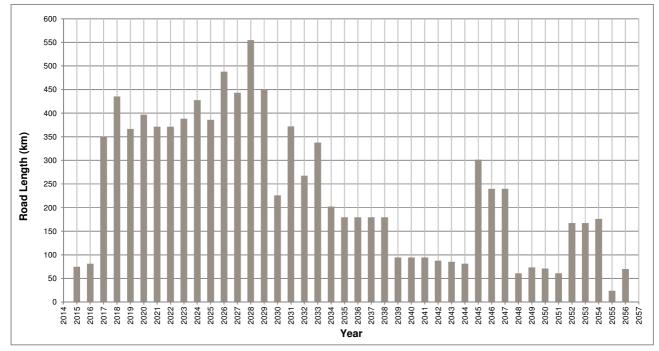


Chart 12-1 Road Length Over Which The Project May Significantly Increase Maintenance Activity

Chart 12-1 indicates that in any year, the greatest extent of road network likely to be impacted is 555km in 2028 (of approximately 7,850km of the State-controlled road network contained within the SREIS RIA Study Area). Therefore, while Figure 12-3 identifies maintenance impacts over 708km of the State-controlled road network, the data presented in Chart 12-1 confirms that the peak impact year for individual links will not all coincide.

As a reality check of the maintenance impact analysis it was previously identified in Chart 8-5 that the Project would increase the existing level of heavy vehicle and bus activity occurring on the State-controlled road network within the SREIS RIA Study Area by approximately 1.1%. As pavement maintenance and rehabilitation activity is typically attributed to heavy vehicle loadings and environmental effects, the estimate identified in Chart 8-5 provides a basic indication of the potential impact of the Project. Comparison of the results presented in Chart 8-5 and Chart 12-1 indicates that they broadly align and therefore provides road authorities confidence that the impact of the Project on pavement maintenance activities has been accurately forecast.

Figure 12-4 identifies the reduction in pavement service life as a result of the pavement loadings associated with Project traffic. In accordance with TMR's GARID, Projects are defined as having a significant impact on the timing of pavement rehabilitation only where the acceleration time exceeds one year. Figure 12-5 summarises the road segments for which the Project traffic demands are likely to significantly impact the forecast timing of rehabilitation activities (i.e. bring forward required rehabilitation activities by more than one year). The reported impact is the worst-case impact for the two travel directions of each individual road link.

The SREIS RIA pavement analysis indicates that the traffic demands associated with the Project are likely to have a significant impact on TMR's pavement maintenance and rehabilitation activities. This finding is different to the outcome previously documented within the EIS RIA which did not specifically consider the impact that Project traffic demands would have on pavement maintenance and rehabilitation activities.

An indicative proponent contribution towards pavement activities could not be determined as part of the SREIS RIA assessment due to pavement maintenance data not being supplied for the majority of the assessed State-controlled road network. The alternative use of placeholder maintenance data is unlikely to enable a sufficiently accurate estimate to provide meaningful insight. Previous investigations have indicated that generic maintenance rate data historically supplied by road authorities enables limited insight. The analysis presented herein is nevertheless sufficient to indicate the scale of the Project's impact on pavement maintenance and rehabilitation activities.

The Project's identified level of impact on pavement maintenance and rehabilitation activities is able to be readily and effectively managed through the application of typical EIS requirements including the obligation

to enter into Post-EIS IAs with road authorities. The Post-EIS RIAs will need to identify the exact contributions to be captured within the Post-EIS IAs to offset the costs associated with the increased level of pavement activities generated by Project traffic demands. The establishment of contributions will ensure that there are no significant residual impacts.

Appendix F presents further details of the pavement impact assessment analysis for a technical audience.

### 12.5 Case Study Traditional Traffic Engineering Assessments

Road standard assessments were undertaken for the preliminary defined access routes for several case study Project sites based upon applying typical traffic engineering practice requirements. The identification of the works required along the defined access routes demonstrates that the planned management strategies deliver outcomes exceeding or at least meeting typical engineering practice requirements. Field inspections were undertaken during October 2013 to inform the traffic engineering case study assessments. This included a detailed review of various road cross-section and intersection geometry aspects including, for example, available sight distances. In addition, a desktop review of historical crash data was completed. The intent of the assessment was to identify if any road deficiencies exist which warrant road upgrades to ensure safe and efficient transport along the defined access routes to the case study project sites.

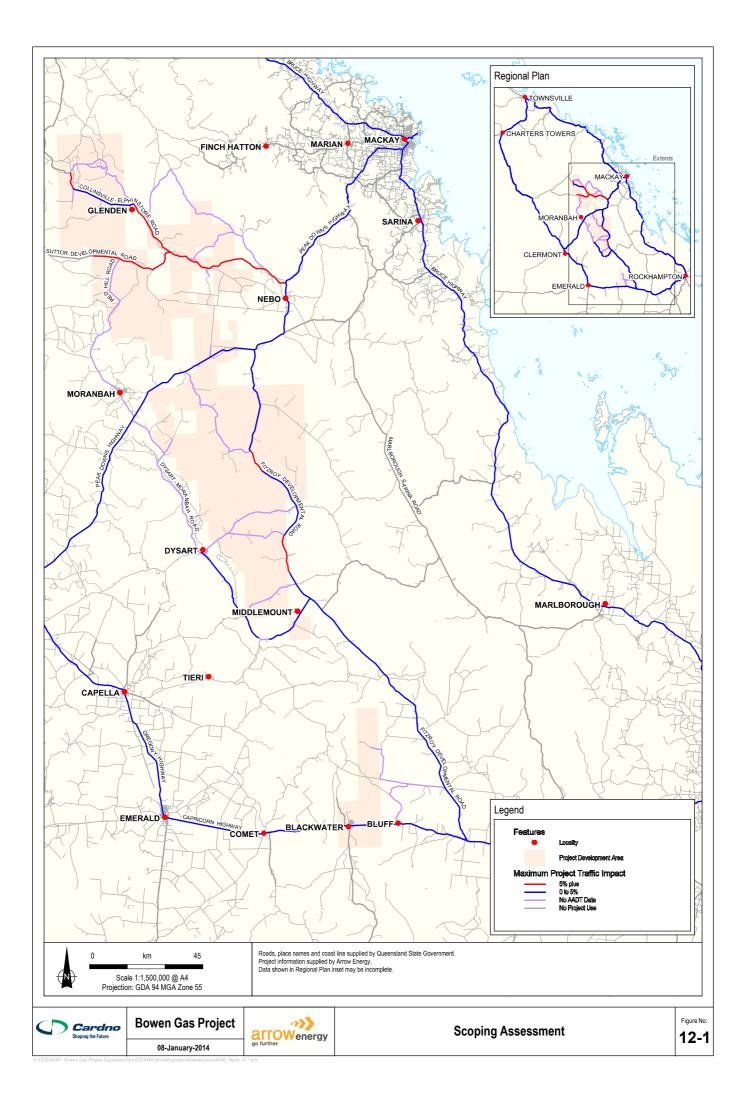
Intersection turn warrant and performance analysis was also undertaken for each of the key intersections along the defined access routes servicing the case study project sites. The intent of the turn warrant analysis was to identify the turn lane treatments that would be required to safely and efficiently accommodate Project traffic demands. The intent of the intersection capacity analysis was to quantify the impact of Project traffic demands on the operation of the assessed intersections (e.g. vehicular delays and queues) and to identify any required intersection upgrades.

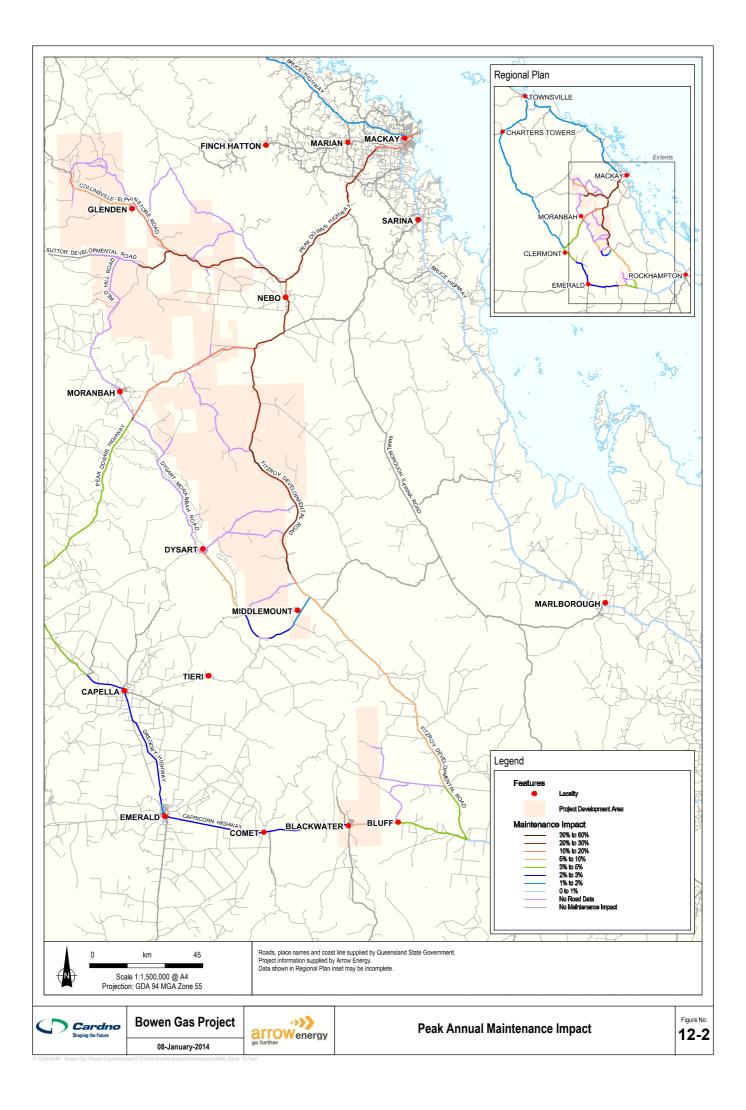
The collective outcome of the various components of the road standard assessments are summarised on Figure 12-5. The results presented on Figure 12-5 indicate that the application of standard traffic engineering requirements would warrant the provision of upgraded road infrastructure at the assessed case study locations. This includes the potential provision of upgraded sealed roads and intersection forms. This finding is different to that presented within the EIS RIA which did not identify the requirement for any specific road works to facilitate safe and efficient access to Project facilities.

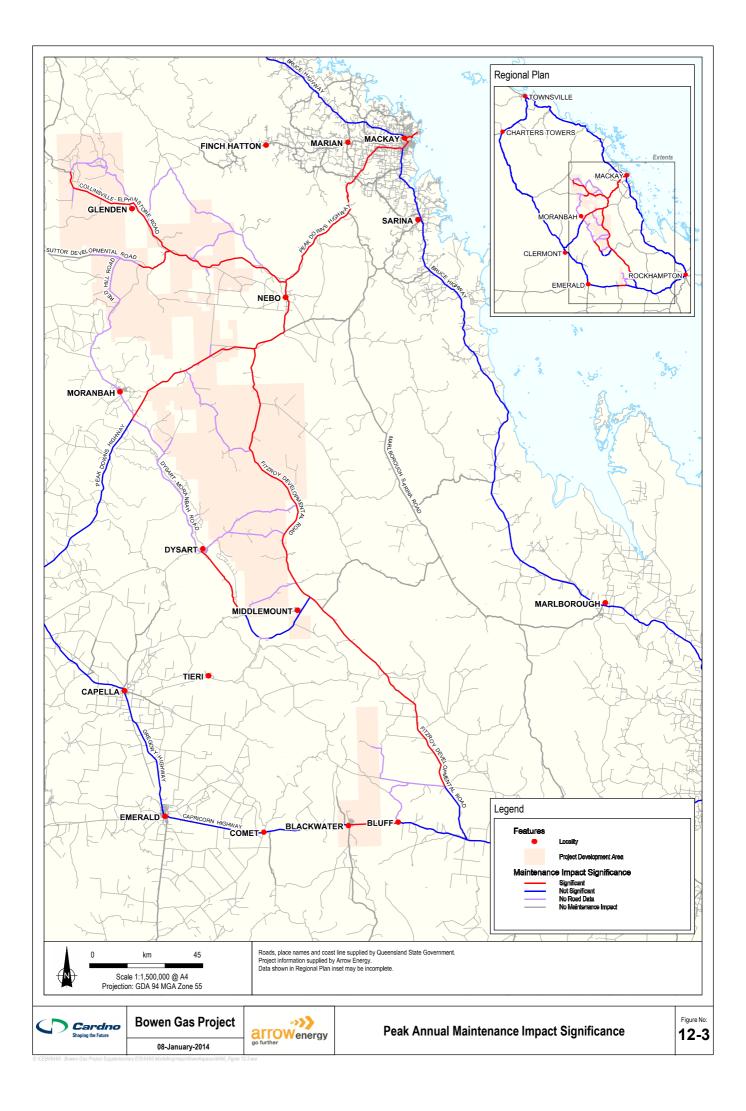
The intent of the traffic engineering case study assessment is to establish the works likely to be required along the preliminary defined access routes servicing the case study project sites based upon standard traffic engineering practice requirements. This enables a comparison of the case study outcomes obtained via the application of the planned management strategies to typical traffic engineering practice requirements to be provided in Section 13.

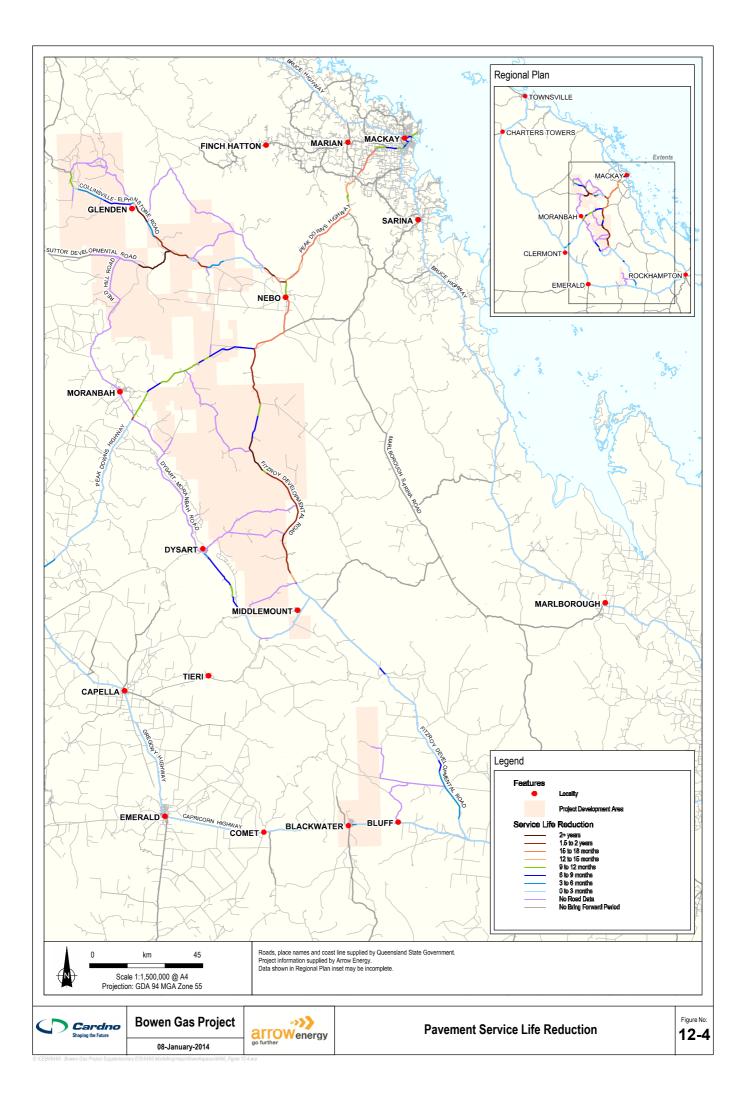
The traffic engineering case study assessment does not seek to identify all of the proponent funded works and contributions ultimately required to facilitate safe and efficient access to Project facilities. Identification of these works at this time is premature as the specific location of all facilities and the exact Project schedule is yet to be finalised. The Post-EIS RIAs will instead identify the precise works required to support the Project which will ultimately inform the Post-EIS IAs.

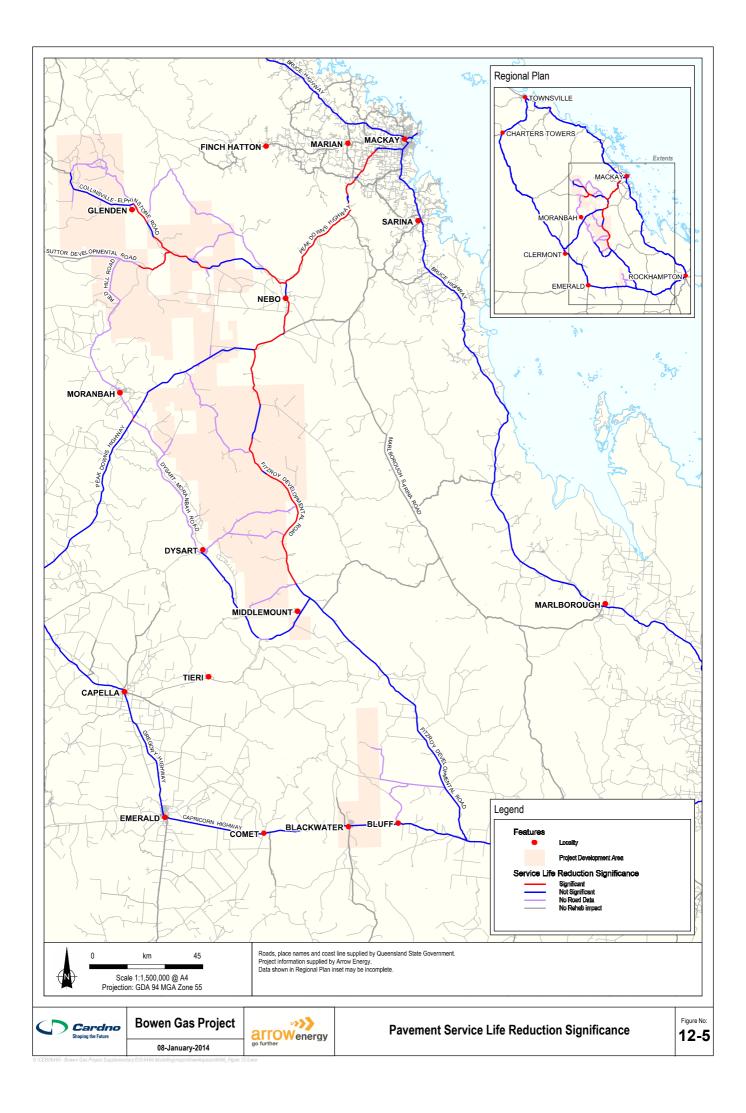
Appendix G presents further details of the analysis road standard analysis for a technical audience.



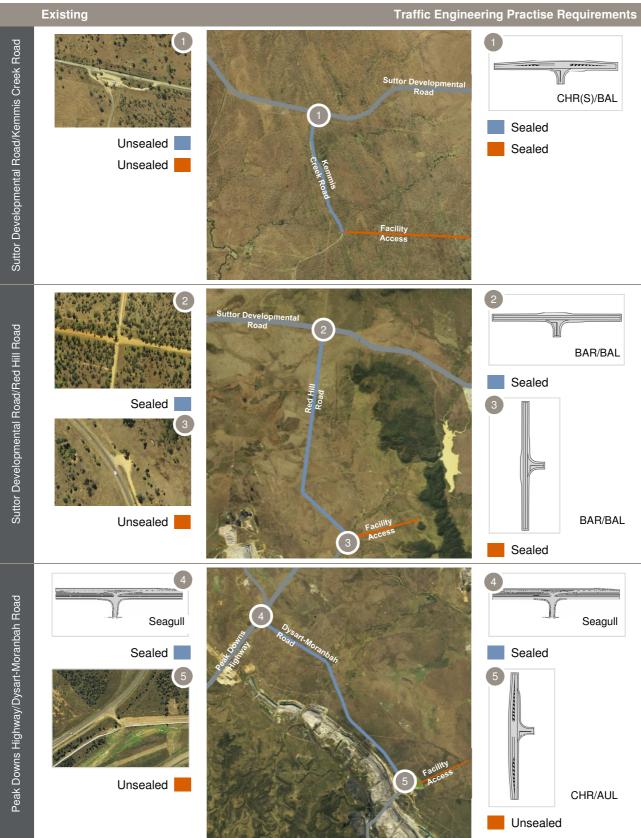








#### Figure 12-6 Traffic Engineering Case Study Outcomes



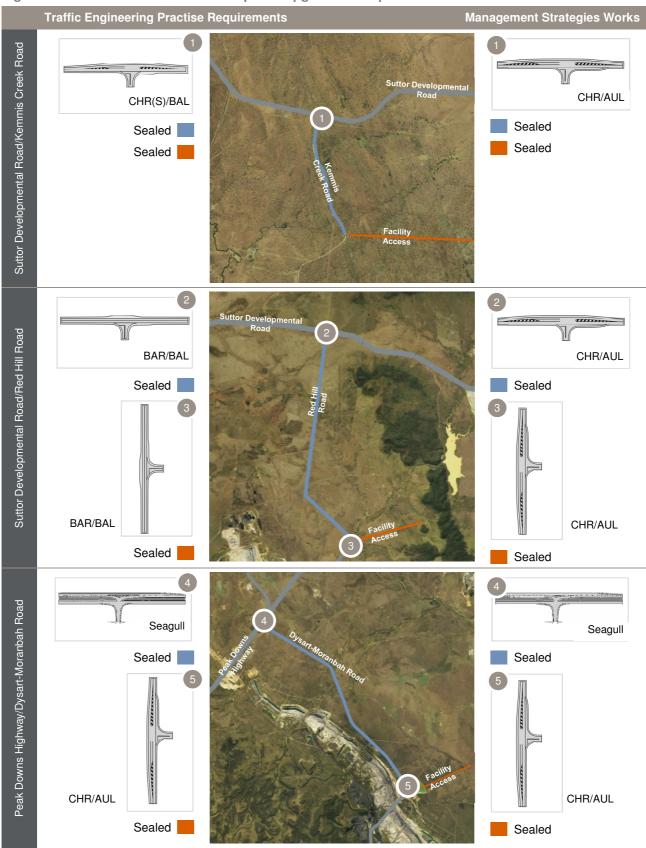
# 13 Management Strategies Effectiveness

### 13.1 Overview

The SREIS RIA has sought to establish if the planned management strategies will result in outcomes that exceed or at least meet typical traffic engineering practice requirements. Section 11 identifies the outcomes resulting from the application of the planned management strategies to the "real-world" defined access routes servicing the case study Project locations. Section 12 identifies the outcomes resulting from the application of typical traffic engineering practice requirements to the same preliminary defined access routes. This enables comparison of the outcomes achieved by applying the two approaches to confirm if the planned management strategies will result in outcomes that exceed or at least meet typical traffic engineering practice requirements.

### 13.2 Case Study Outcome Comparison

Figure 13-1 compares the identified road upgrade works for the case study locations. This identifies that application of the planned management strategies will result in outcomes that exceed or at least meet typical traffic engineering practice requirements. This critical finding confirms the appropriateness of the planned management strategies as their application will result in outcomes which exceed or at least meet typical traffic engineering practice requirements. This outcome confirms that the application of typical EIS approval requirements and the implementation of the planned management strategies will ensure that potential impacts associated with the Project can be effectively managed. It is therefore unlikely that there will be any residual road impacts associated with the Project that are so significant that they should preclude approval of the Project. Identification of a set of planned management strategies ensures that Arrow commits to providing appropriate road infrastructure to facilitate safe and efficient transport to Project facilities.



#### Figure 13-1 Defined Access Route Required Upgrades Comparison

# 14 Environmental Values Assessment

### 14.1 Overview

The Project EIS must assess both the intensity of the impact and the context in which it would occur to determine whether the impact is or is not significant. The potential impacts of the Project on environmental values for each environmental aspect are assessed using one of three methodologies; significance assessment, risk assessment or compliance assessment.

The significance assessment method is particularly relevant for technical studies such as the SREIS RIA where an understanding of the vulnerability of the environmental asset or resource is important. Thus, this approach has been used for the SREIS RIA. For further details in relation to the selection of the adopted environmental values assessment methodology see the Impact Assessment Method chapter (Section 6) of the EIS and Section 6 of the EIS RIA. For brevity, the content previously presented has not been reproduced in detail herein.

The environmental values assessment approach establishes the significance of the Project's potential impacts through consideration of:

- > the sensitivity of each environmental value: determined based on consideration of its susceptibility or vulnerability to threatening processes or as a consequence of its intrinsic value.
- > the magnitude of the Project's potential impact upon the value: determined based on consideration of the impact's severity.

To enable the effectiveness of the planned management strategies to be assessed, the level of significance of the potential impacts has been considered both pre- and post-implementation of the planned management strategies. The significance of impacts are a function of the sensitivity of the values to change and the magnitude of the change experienced. Table 14-1 summarises the significance of impact given the sensitivity of an environmental value and the magnitude of impact.

Sensitivity of Environmental Value				
		High	Moderate	Low
Magnitude of Impact	High	Major	High	Moderate
	Moderate	High	Moderate	Low
	Low	Moderate	Low	Negligible

#### Table 14-1 Significance of Impact Matrix

The SREIS RIA adopts updated significance of impact definitions from that previously considered in the EIS RIA. The updated significance definitions provide greater clarity in relation to the level of Project impact. The impact definitions adopted for the SREIS RIA are as follows:

- > Major Impact: Occurs when impacts will potentially cause irreversible or widespread harm to an environmental value.
- > High Impact: Occurs when the proposed activities are likely to exacerbate threatening processes affecting the intrinsic characteristics and structural elements of the environmental value.
- > Moderate Impact: Occurs where, although reasonably resilient to change, the environmental value would be further degraded due to the scale of the impacts or its susceptibility to further change.
- > Low Impact: Occurs where an environmental value is of local importance and temporary and transient changes will not adversely affect its viability provided standard environmental controls are implemented.
- > Negligible Impact: A degraded (low sensitivity) environmental value exposed to minor changes (low magnitude impact) will not result in any noticeable change in its intrinsic value and hence the proposed activities will have negligible impact.

### 14.2 Adopted Magnitude Thresholds

The magnitude thresholds adopted for the SREIS RIA have been updated from those previously considered as part of the EIS RIA to reflect input provided through road authority submissions. The updated thresholds also enable assessment of roads for which traffic count data is not publicly available thus enabling a more comprehensive assessment than previously presented within the EIS RIA. For the SREIS RIA assessment the following magnitude of impact definitions have been adopted:

- > High Magnitude: greater than 1,000 AADT increase
- > Moderate Magnitude: 251 to 1,000 AADT increase
- > Low Magnitude: 1 to 250 AADT increase.

### 14.3 Adopted Sensitivity Thresholds

Table 14-2 and Table 14-3 summarise the adopted environmental values and their sensitivities both pre- and post-implementation of the planned management strategies respectively. While the sensitivities adopted for the SREIS RIA for each road type remain the same as those adopted for the EIS RIA, some typical observation values have been refined based upon an enhanced understanding of the existing road conditions gained since preparation of the EIS RIA.

	Characteristic		Value	
	Gildracteristic	Highway	Regional Connecting Road	Local Connecting Road
Description	Function	A high order road facilitating connectivity between regional centres	A high order road facilitating connectivity between townships	Lower order road facilitating connectivity between higher order roads or facilitating access
ž	Volumes	1,000+ vehicles	300+ vehicles	300 or less vehicles
Efficiency	Pavement	Sealed	Sealed	Sealed/unsealed
Effi	Standard of intersection control	High order	Varies	Low order
Sen	sitivity of Efficiency	Low	Moderate	High
	Bridges	Common	Common	Uncommon
	Cattle grids	Uncommon	Uncommon	Common
L{	Standard of rail crossing control	Active	Passive	Passive
Safety	School bus route presence	Present	Present	Present
	Composition of traffic	High proportion heavy vehicles	Moderate proportion of heavy vehicles	Low number of heavy vehicles
	Driver fatigue controls	Present	Uncommon	Uncommon
Se	ensitivity of Safety	Low	Moderate	High
	Stock route co- location	Present	Present	Present
Amenity	Sensitivity of adjacent land uses	Low	Moderate	Moderate
Ame	Potential for dust nuisance issues	Low	Low	Potential
	Potential for light glare issues	Low	Low	Potential
Sei	nsitivity of Amenity	Low	Moderate	High

#### Table 14-2 Summary of Sensitivity Values Pre-Implementation of Management Strategies

	Characteristic		Value	
	Characteristic	Highway	Regional Connecting Road	Local Connecting Road
Description	Function	A high order road of a high standard facilitating linkage between regional centres	A high order road of a high standard facilitating linkage between townships	Lower order road providing links between higher order roads
		Typical	Observations	
2	Volumes	1,000+ vehicles	300+ vehicles	300 or less vehicles
Efficiency	Pavement	Sealed with improvements	Sealed with improvements	Sealed with improvements
Eff	Standard of intersection control	High order	High order	Low order with improvements
Sen	sitivity of Efficiency	Low	Low	Moderate
	Bridges	Frequent and high standard	Frequent and high standard	Infrequent and high standard
	Cattle grids	Uncommon	Uncommon	Frequent and higher standard
Safety	Standard of rail crossing control	Active	Investigate exposure threshold	Investigate exposure threshold
Saf	School bus route presence	Present with improved awareness	Present with improved awareness	Present with improved awareness
	Composition of traffic	High proportion of heavy vehicles	Moderate proportion of heavy vehicles	Higher number of heavy vehicles
	Driver fatigue controls	Present plus driver fatigue management plan	Uncommon plus driver fatigue management plan	Uncommon plus driver fatigue management plan
Se	ensitivity of Safety	Low	Low	Moderate
	Stock route co- location	Present but disturbances managed	Present but disturbances managed	Present but disturbances managed
Amenity	Sensitivity of adjacent land uses	Low	Low	Moderate
Amé	Potential for dust nuisance issues	Low but managed	Low but managed	Potential but managed
	Potential for light glare issues	Low but managed	Low but managed	Potential but managed
Ser	sitivity of Amenity	Low	Low	Moderate

 Table 14-3
 Summary of Sensitivity Values Post-Implementation of Management Strategies

### 14.4 Adopted Significance Thresholds

Table 14-4 and 14-5 summarise the adopted significance of impact thresholds utilised for the environmental values assessment both pre- and post-implementation of the planned management strategies respectively.

Table 14-4	Significance of	of Impacts:	Pre-Implementation	of Management	Strategies Matrix
------------	-----------------	-------------	--------------------	---------------	-------------------

	Sensitivity of Environmental Value				
of Impact		High (Local Connecting Roads)	<b>Moderate</b> (Regional Connecting Roads)	<b>Low</b> (Highways)	
	<b>High</b> (1,000+ AADT)	Major	High	Moderate	
Magnitude	Moderate (251-1,000 AADT)	High	Moderate	Low	
2	<b>Low</b> (1-250 AADT)	Moderate	Low	Negligible	

	Table 14-5	Significance of In	pacts: Post-Imp	lementation of I	Management S	Strategies Matrix
--	------------	--------------------	-----------------	------------------	--------------	-------------------

	Sensitivity of Environmental Value					
Impact	High Moderate Low (Local Connecting Roads) (Regional Connectir Roads & Highways					
lde of	<b>High</b> (1,000+ AADT)	Major	High	Moderate		
Magnitude	Moderate (251-1,000 AADT)	High	Moderate	Low		
2	<b>Low</b> (1-250 AADT)	Moderate	Low	Negligible		

#### 14.5 Significance of Impacts Pre-Implementation of Management Strategies

Figure 14-1 spatially summarises the level of significance of the Project's potential road impacts based upon the environmental values assessment approach pre-implementation of the planned management strategies. The figure identifies that in the absence of the planned management strategies being implemented, the traffic demands associated with the Project could result in negligible to moderate impacts on the road environmental values. The highest levels of impacts are typically forecast to occur on the lower order roads providing access to major facilities such as CGPFs.

The EIS RIA previously identified that pre-implementation of the planned management strategies the impact of Project traffic demands on all assessed roads would be negligible with the exception of Suttor Developmental Road which would experience low level impacts between Elphinstone and Red Hill Road. The SREIS RIA has identified higher levels of potential impact pre-implementation of the planned management strategies as a result of the refined Project traffic demand forecasts and as a result of the updated impact magnitude thresholds adopted for the SREIS RIA.

#### 14.6 Significance of Impacts Post-Implementation of Management Strategies

It is expected that the magnitude of the Project's impacts will not change as a result of implementation of the planned management strategies as the magnitude is intrinsically linked to the extent of Project activities which the strategies do not influence. Instead it is expected that through the implementation of the planned management strategies, the sensitivity of the road environmental values will typically reduce, thereby resulting in typically reduced significance of impacts.

Figure 14-2 spatially summarises the level of significance of the Project's potential road impacts based upon the environmental values assessment approach post-implementation of the planned management strategies. The figure identifies that the Project's potential significance of impact is anticipated to range from negligible to low.

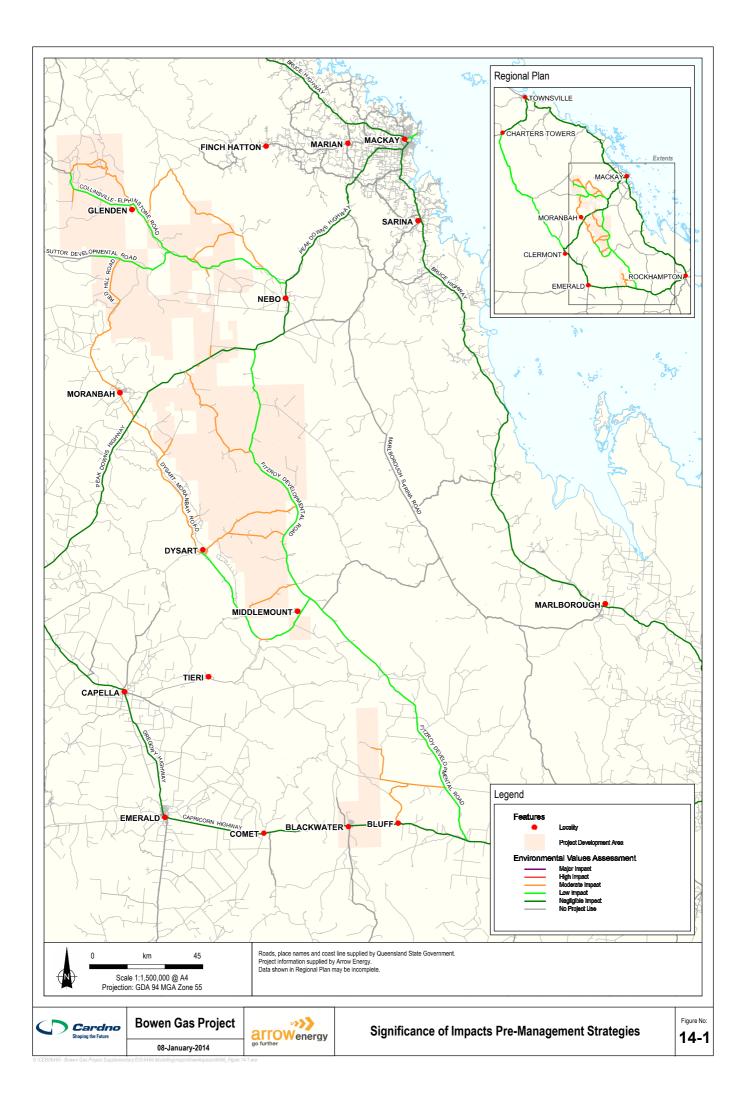
The EIS RIA previously identified that post-implementation of the planned management strategies the impact of Project traffic demands on all assessed roads would be negligible. The SREIS RIA has identified higher levels of impact post-implementation of the planned management strategies as a result of the refined Project traffic demand forecasts and as a result of the updated impact magnitude thresholds adopted for the SREIS RIA. The higher levels of potential impact identified by the SREIS RIA are however still within acceptable limits.

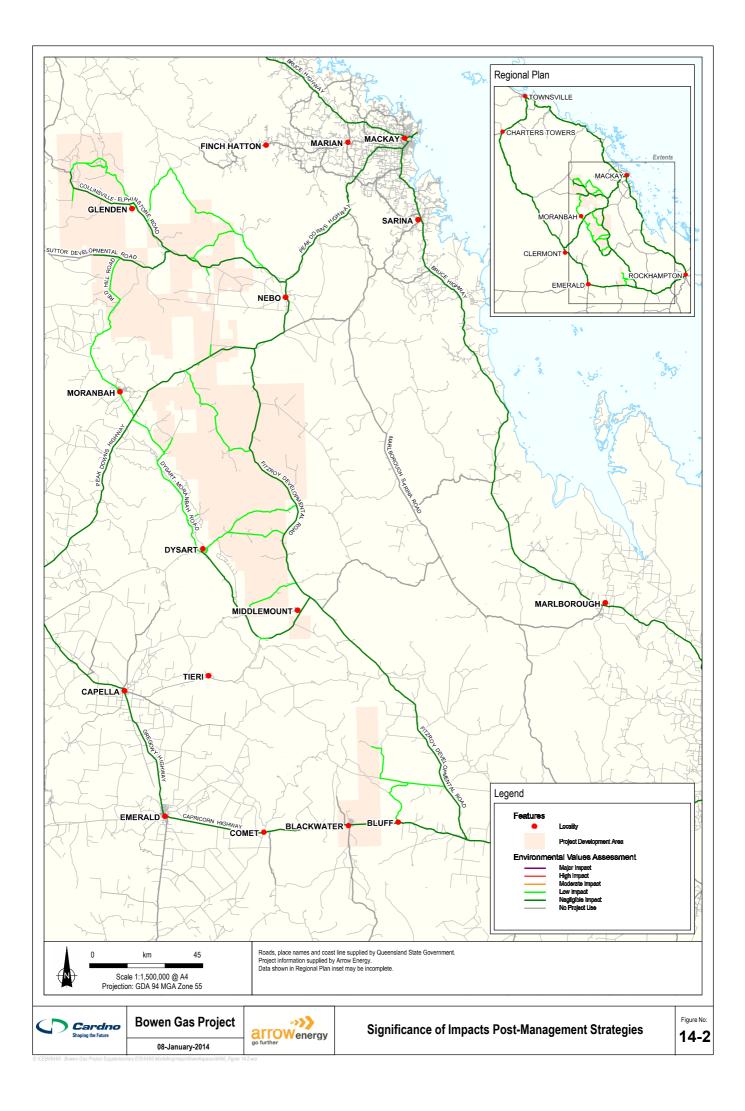
### 14.7 Environmental Values Assessment Summary

The environmental values assessment identifies that there are unlikely to be residual impacts of higher order significance (high or major) post-implementation of the planned management strategies.

Consistent with the intent of the SREIS assessment phase, the SREIS RIA does not seek to identify a comprehensive list of the proponent funded road works or contributions ultimately required to support the Project. Instead the SREIS RIA seeks to confirm if the planned management strategies are likely to be effective at avoiding, minimising or mitigating all high or major road impacts associated with the Project.

The SREIS RIA environmental values assessment identifies that the planned management strategies will be effective at avoiding, minimising or mitigating road impacts of major and high significance associated with the Project.





# 15 Conclusions

The SREIS RIA has been undertaken to assess the road impacts associated with the Bowen Gas Project. The SREIS RIA has sought to establish if there are likely to be any road impacts that cannot be effectively managed through the application of typical EIS approval requirements and the implementation of the planned management strategies. The assessment has identified the following:

- > Existing traffic conditions including traffic volumes, levels of traffic growth, the presence of school bus and stock routes remain broadly consistent with that previously considered in the EIS RIA.
- > The traffic generation estimates of the various activities associated with the Project have been refined from that presented within the EIS RIA based upon the findings of recent logistics planning and to ensure that a worst-case scenario is considered within the SREIS RIA.
- > Traffic modelling identifies that as a result of the revised traffic generation assumptions and the updated Project planning, the Project's peak transport task is anticipated to occur much earlier than previously forecast within the EIS RIA.
- > The traditional traffic engineering assessment has identified that Project traffic demands have the potential to increase baseline traffic demands however this increase is unlikely to significantly affect the level of service afforded by the road network.
- > The pavement assessment has established that Project traffic demands have the potential to increase the required maintenance works and potentially reduce the pavement service life of various road sections. The identified level of impact can however be effectively managed through the establishment of Post-EIS IAs with road authorities to mitigate the increased pavement activities.
- > The traffic engineering case study assessment has identified the potential requirement for road upgrades for the defined access routes. This includes the potential provision of upgraded sealed roads and intersection forms. This finding is different to that presented within the EIS RIA which only identified a high level potential requirement for future upgrades. The assessment also identified that implementation of the planned management strategies will result in outcomes that exceed or at least meet typical traffic engineering practice requirements.
- > An environmental values significance assessment has also confirmed the effectiveness of the planned management strategies to avoid, minimise and mitigate all significant road impacts.

The SREIS RIA has established that there is unlikely to be any residual road impacts that cannot be managed via infrastructure agreements with road authorities, post-implementation of the planned management strategies, and that residual impacts should not be significant enough to preclude approval of the Project.

Future Post-EIS RIAs will identify the need for specific works to provide safe and efficient access to all Project facilities in addition to the contributions required to preserve the service life of the road network. If required, post-EIS IAs established with relevant road authorities will capture the value and timing of the identified works and contributions.

[This page has been left intentionally blank]

# Glossary

Word, Phrase or Term	Definition
Annual Average Daily Traffic	The total volume of traffic passing a roadside observation point over the period of a calendar year, divided by the number of days in that year (365 or 366 days).
Austroads	The association of Australian and New Zealand road transport and traffic authorities whose purpose is to contribute to the achievement of improved road transport outcomes.
Baseline traffic	The expected volume of traffic at a particular point without the addition of the traffic associated with the project under consideration.
Buses	vehicles larger than a light vehicle van which transport people
Council	Isaac Regional Council (IRC), Central Highlands Regional Council (CHRC), Mackay Regional Council (MRC), Whitsunday Regional Council (WRC) and/or Townsville City Council (TCC) as appropriate.
Council-controlled road	Roads which are administered, funded and maintained by local government.
Crash rate	A crash rate is a ratio of the number of crashes to some common denominator usually vehicle kilometres of travel, head of population or period of time. Crash rates allow more meaningful comparisons to be made between crash locations.
Department of Transport and Main Roads	Queensland government department responsible for planning, managing and delivering Queensland's integrated transport environment.
Environmental Impact Statement	A structured document which is prepared to identify and assess the environmenta impacts of a proposed activity which is either designated as development or 'likely to significantly affect the environment'. It also outlines safeguards to mitigate or contro such impacts.
Equivalent Standard Axle	The number of standard axle loads that are equivalent in damaging effect on a pavement to a given vehicle or axle loading.
Guidelines for Assessment of Road Impacts of Development	Guideline which provides developers with advice on how to assess the traffic and pavement impacts of a proposed development on state-controlled roads. The content is particularly relevant where a development application has been referred to the state as part of the IDAS process or where a Coordinated Project has been referred to the department under the State Development and Public Works Organisation Act 1971.
Growth rate	The annual percent change in the number of vehicles passing a given point on a road.
Heavy Vehicle	A heavy vehicle is defined as any vehicle with three or more axles or with dual tyres on the rear axle.
Intersection capacity	The maximum sustainable traffic flow rate at which vehicles can reasonably be expected to traverse an intersection under given roadway, geometric, traffic environmental and control conditions; usually expressed as vehicles per hour.
Light Vehicle	Sedans, wagons, vans, utilities, four wheel drive and motorcycles
Post-EIS Infrastructure Agreements	Formalises the amount of, and timing of payments for any required contributions towards road upgrades or pavement activities identified in the Post-EIS RIAs.
Post-EIS Road Impact Assessments	Considers the impacts on the safety, efficiency and service life of the road network following detailed Project planning (i.e. post-EIS approval, site selection and road authority engagement.
Post-EIS Road-use Management Plans	Summarise aspects including the Project's transport task, transport routes, safety strategies and any required road upgrades or contributions.
Project	Bowen Gas Project.
Project development area	The area for which Arrow is seeking approval to develop through the EIS assessment process.
Road Impact Assessment	An assessment which identifies the potential road impacts of a proposed development and appropriate management strategies in accordance with the requirements of the Department of Transport and Main Roads <i>Guidelines for Assessment of Road</i>

Word, Phrase or Term	Definition
	Impacts of Development.
Road-use Management Plan	A Road-use Management Plan is a "living" document which provides the latest information about traffic generation, impact assessment in accordance with TMR's "Guidelines for the Assessment of Road Impacts of Development".
Sealed road	Generic terminology adopted within the Road Impact Assessment to identify a road that has generally been constructed using a bituminous material to form a protected road surface.
State-controlled road	A road declared to be controlled by the Department of Transport and Main Roads, including all AusLink National Roads in Queensland.
Unsealed road	Generic terminology adopted within the Road Impact Assessment to identify a road that has generally not been constructed using a bituminous material to form a protected road surface.
Vehicle Kilometres of Travel	A measure of traffic demand and is the length of a section of road in kilometres multiplied by the AADT on it. The yearly VKT is the daily VKT multiplied by the number of days in that year (365 or 366 days).

## References

- ARRB 2009, *Unsealed Roads Manual: Guidelines to Good Practice*, 3<sup>rd</sup> ed., ARRB Group, Austroads, Victoria, Melbourne.
- Austroads 2011, *Establishment of a New Pavement Maintenance Database Stage 1 and 2 Analysis,* Austroads Research Report AP-R394-11, Austroads, New South Wales, Sydney.
- Austroads 2010, *Guide to Road Design Part 4A: Unsignalised and Signalised Intersections,* Austroads, New South Wales, Sydney.
- Austroads 1988, *Guide to Traffic Engineering Practice Part 2: Roadway Capacity,* Austroads, New South Wales, Sydney.
- Austroads 2010, *Road Safety Engineering Risk Assessment Part 7: Crash Rates Database*, Technical Report AP-T152/10, Austroads, New South Wales, Sydney.
- Austroads 2003, *Rural Road Design: A Guide to the Geometric Design of Rural Roads*, Austroads, New South Wales, Sydney.
- Austroads 2003, *Rural Road Design: A Guide to the Geometric Design of Rural Roads*, Austroads, New South Wales, Sydney. Department of Transport and Main Roads 2008, *Assessment of Road Impacts of Development Proposal Notes for Contribution Calculations Version 28,* Department of Transport and Main Roads, Queensland, Rockhampton.
- Department of Transport and Main Roads 2006, *Guidelines for the Assessment of Road Impacts of Development*, Department of Transport and Main Roads, Queensland, Brisbane.
- Department of Transport and Main Roads 2011, *Road-use Management Plan General Guidelines Document Version 3,* Department of Transport and Main Roads, Queensland, Rockhampton.
- Department of Transport and Main Roads 2002, Guide for the Road Safety Management of Rural School Bus Routes and Bus Stops, Department of Transport and Main Roads, Queensland, Brisbane.
- Roads and Maritime Services 2002, *Guide to Traffic Generating Developments*, New South Wales Government, New South Wales, Sydney.

[This page has been left intentionally blank]

Bowen Gas Project SREIS





# Data Descriptions

ID	Description/Disclaimer/Information Supplied
AUR-1	"© Aurizon Network Pty Ltd 2013"
Aurizon Level Crossings Central Queensland	"Based on or contains data provided by Aurizon Network Pty Ltd 2013 © Aurizon Network Pty Ltd. In consideration of Aurizon Network Pty Ltd permitting use of this data you acknowledge and agree that Aurizon Network Pty Ltd gives no warranty in relation to the data (including accuracy, reliability, completeness, currency or suitability) and accepts no liability (including without limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use of the data. Data must not be used for direct marketing or be used in breach of the privacy laws."
DRNM-1 Physical road network	"This dataset is a digital representation of the physical position of Queensland's road transportation network. The physical network is incomplete and is progressively being completed."
	"© State of Queensland (Department of Natural Resources and Mines) [2012]"
	"Based on or contains data provided by the State of Queensland (Department of Natural Resources and Mines [2012]. In consideraiton of the State permitting use of this data you acknowledge and agree that the State give no warrantly in realtion to the data (includign accuarcy, reliability, completeness, currency or suitability) and accepts no liability (including withou limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use of the data. Data must not be used for direct marketing or be used in break of the priavcy laws."
DRNM-2 General purpose mapping	"This dataset contains the relief layer of Queensland. It is a version derived from the DNRM regional mapping series which depicts road classification, markers and distances, railways, drainage, populated centres, coast, reef and relief. See additional information also."
	© State of Queensland (Department of Natural Resources and Mines) [2012]"
	"Based on or contains data provided by the State of Queensland (Department of Natural Resources and Mines [2012]. In consideraiton of the State permitting use of this data you acknowledge and agree that the State give no warrantly in realtion to the data (includign accuarcy, reliability, completeness, currency or suitability) and accepts no liability (including withou limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use of the data. Data must not be used for direct marketing or be used in break of the priavcy laws."
DNRM-3 Local government areas	"The Cadastral dataset is the spatial representation of property boundaries and descriptions in the above local government area. It is a fundamental reference layer for spatial information systems in Queensland. This is a complete extract from the Digital Cadastral Database (DCDB)."
	"© State of Queensland (Department of Natural Resources and Mines) [2012]" "Based on or contains data provided by the State of Queensland (Department of Natural Resources and Mines [2012]. In consideraiton of the State permitting use of this data you acknowledge and agree that the State give no warrantly in realtion to the data (includign accuarcy, reliability, completeness, currency or suitability) and accepts no liability (including withou limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use of the data. Data must not be used for direct marketing or be used in break of the priavcy laws."
DNRM-4 Coastline Queensland	"This data depicts the coastline of mainland Queensland and its offshore marine islands. The coastline generally follows the mean high water springs tidal line. However, where this line is obscured by vegetation and in particular mangroves, the seaward edge of the vegetation is adopted as the coastline as per the Queensland Topographic Specifications (QTOS) 1988."
	"© State of Queensland (Department of Natural Resources and Mines) [2012]"
	"Based on or contains data provided by the State of Queensland (Department of Natural Resources and Mines [2012]. In consideraiton of the State permitting use of this data you acknowledge and agree that the State give no warrantly in realtion to the data (includign accuarcy, reliability, completeness, currency or suitability) and accepts no liability (including withou limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use of the data. Data must not be used for direct marketing or be used in break of the priavcy laws."

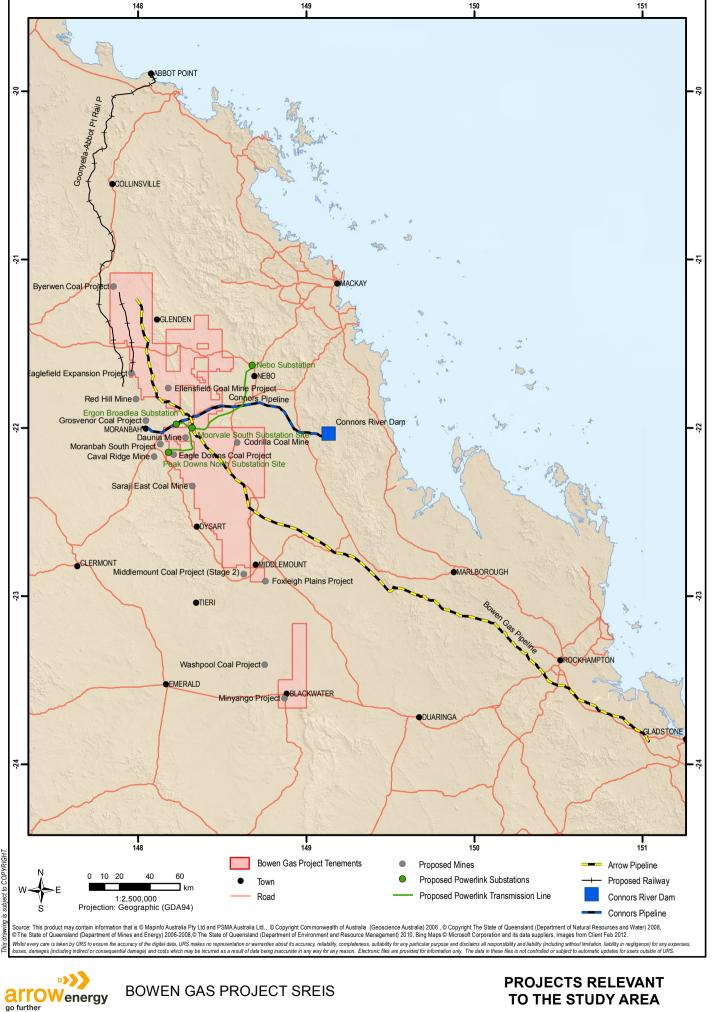
DNRM-5 Rail Network	"This dataset is a digital representation of the physical position of Queensland's rail transportation network."
	"© State of Queensland (Department of Natural Resources and Mines) [2012]"
	"Based on or contains data provided by the State of Queensland (Department of Natural Resources and Mines [2012]. In consideraiton of the State permitting use of this data you acknowledge and agree that the State give no warrantly in realtion to the data (includign accuarcy, reliability, completeness, currency or suitability) and accepts no liability (including withou limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use of the data. Data must not be used for direct marketing or be used in break of the priavcy laws."
DRNM-6 Stock Routes	"Queensland's stock route network (SRN) provides pastoralists with a means of moving stock 'or the hoof' around the state's main pastoral districts, as an alternative to trucking and other contemporary transport methods. Approximately 72 000 kilometres (2.6 million hectares) of Queensland's road network is declared as stock route. These routes, together with reserves for travelling stock, make up the Queensland SRN. The Land Protection (Pest and Stock Route Management) Act 2002 (Land Protection Act) regulates the use of the SRN."
	"© State of Queensland (Department of Natural Resources and Mines) [2012]"
	"Based on or contains data provided by the State of Queensland (Department of Natural Resources and Mines [2012]. In consideraiton of the State permitting use of this data you acknowledge and agree that the State give no warrantly in realtion to the data (includign accuarcy, reliability, completeness, currency or suitability) and accepts no liability (including withou limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use of the data. Data must not be used for direct marketing or be used in break of the priavcy laws."
<b>QR-1</b> Queensland Rail Level Crossings	"Defines level crossing locations along the QR railway network. Level crossings are locations which enable vehicles and/or pedestrians to cross the railway line at the same level as the railway track, i.e. without the need for bridges or tunnels. Level rossings have a range of safety protection measures, from simple signage to more complex mechanisms such as boom gates and flashing lights. Also contains closed, removed and proposed crossings locations."
	"© Queensland Rail Limited 2013"
	"Based on or contains data provided by the Queensland Rail Limited 2013. In consideration of Queensland Rail Limited permitting use of this data you acknowledge and agree that Queensland Rail Limited gives no warranty in relation to the data (including accuracy, reliability, completeness, currency or suitability) and accepts no liability (including without limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use of the data. Data must not be used for direct marketing or be used in breach of the privacy laws."
<b>TMR-1</b> Queensland Transport Regional Boundaries	"Queensland Transport (former) is broken into 5 operational areas - Northern, Southern, Central South East Queensland (South), South East Queensland (North). This dataset depicts those regional boundaries. Regional boundaries define each regional offices' area of responsibility. They are predominately based on local government boundaries. Although Queensland Transpor (former) and Main Roads (former) are now one entity, operational boundaries have not been standardised across the Department." "© State of Queensland (Department of Transport and Main Roads) 2010. Updated data
	available at http://dds.information.qld.gov.au/dds/"
TMR-2 School Bus Routes	"As part of the School Transport Assistance Scheme (STAS), TMR approves the designated routes for bus operators to transport students to and from school. The School Kilometric Bus Route dataset depicts these routes. There are many different operators and routes throughout the State. Routes are generated by each regional TMR office, and merged to form this dataset."
	"© State of Queensland (Department of Transport and Main Roads) 2013."
TMR-3 Points of Interest	"Although this points of interest information has been produced and processed from source believed to be reliable, The Department of Transport and Main Roads makes no warrant express or implied regarding the accuracy, adequacy, completeness, legality, reliability or usefulness of any information provided. The coordinates for roadside amenities have bee calculated from a geographic information system (GIS) based on best known location advice accuracy may vary from 10 metres to 200 metres. This points of interest information is intendent to be used as an information source only. If you wish to utilise this information, it is you responsibility to satisfy yourself of the suitability of the information for your use and it compatibility with your hardware.
	The Department of Transport and Main Roads expressly disclaims all liability for any damage to property, including but not limited to the hardware onto which the information is downloaded associated with the accessing, downloading, installing or use of points of interest information.

	Any party using points of interest information releases and indemnifies the State of Queensland against all responsibility and liability (including negligence, negligent misstatement and pure economic loss) for all expenses, losses, damages and costs incurred as a consequence of such loss.
	Be aware that while every effort is made to ensure the currency of the information, electronic data can be altered subsequent to original distribution and data can also quickly become out-of date. The Department of Transport and Main Roads is under no obligation to maintain the currency of points of interest information or to notify you of any updates to the information provided to you."
TMR-4	Reporting Periods for Crash Data
Central Region Crash Data	The Department of Transport and Main Roads (TMR) is able to provide all characteristics (e.g. location, contributing factors etc) of Queensland crash data for:
	<ul> <li>Fatal crashes to 31 May 2013</li> </ul>
	<ul> <li>Hospitalisation crashes to 28 February 2013</li> </ul>
	<ul> <li>Medical Treatment, Minor Injury and Property Damage Only crashes to 31 December 2010</li> </ul>
	A limited range of crash data for all crash severities at a state-wide level is also available through to 31 March 2013. This data set can be provided by severity, month/year, road user/unit types, gender and age. However, crash location, contributing factors and other characteristics are not available.
TMR-5	Reporting Periods for Crash Data
North Queensland Crash Data	The Department of Transport and Main Roads (TMR) is able to provide all characteristics (e.g. location, contributing factors etc) of Queensland crash data for:
	<ul> <li>Fatal crashes to 31 May 2013</li> </ul>
	<ul> <li>Hospitalisation crashes to 31 March 2013</li> </ul>
	<ul> <li>Medical Treatment and Minor Injury crashes to 31 July 2011</li> </ul>
	<ul> <li>Property Damage Only crashes (PDOs) to 31 December 2010</li> </ul>
	A limited range of crash data for all crash severities at a state-wide level is also available through to 30 April 2013. This data set can be provided by severity, month/year, road user/unit types, gender and age. However, crash location, contributing factors and other characteristics are not available.

Bowen Gas Project SREIS

# APPENDIX B Location of Other Projects





BOWEN GAS PROJECT SREIS

# TO THE STUDY AREA



## Bowen Gas Project SREIS

# APPENDIX C Project Activities and Traffic Generation

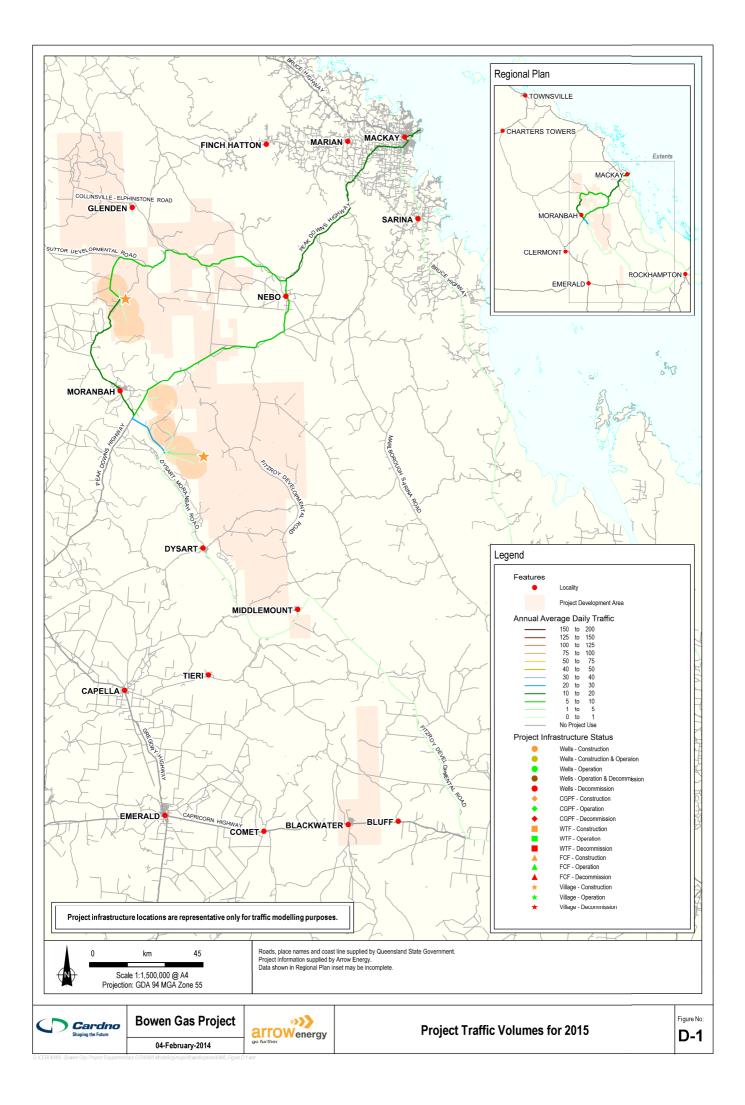


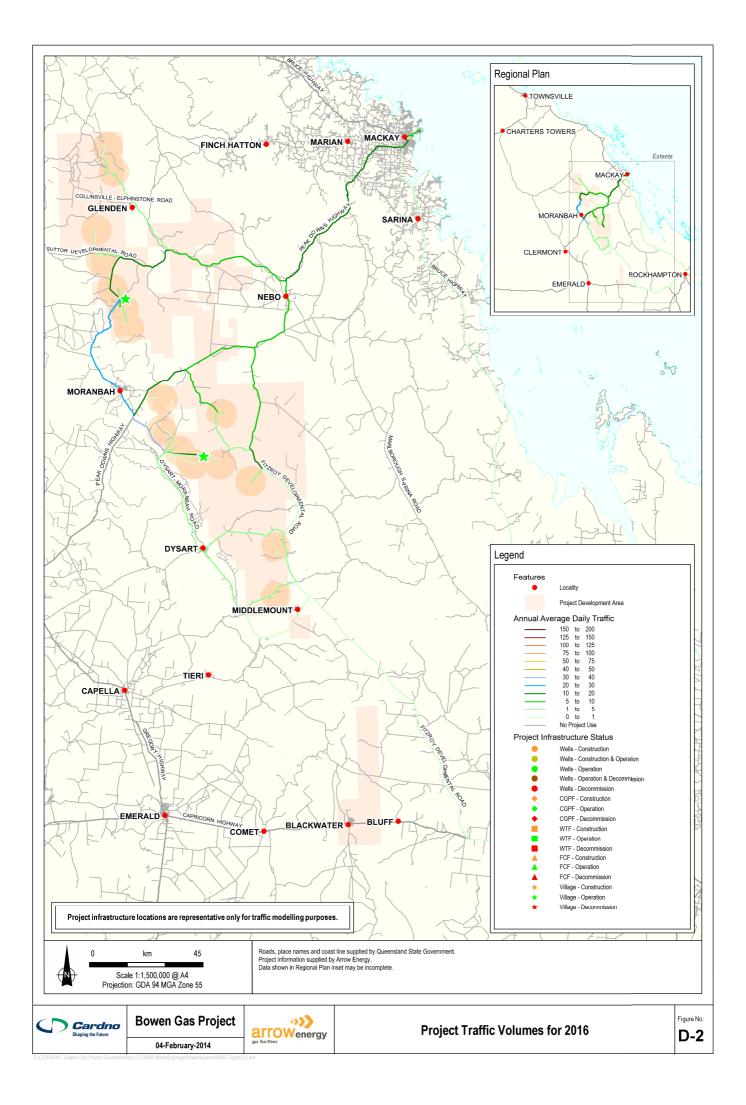
[Appendix C is available on request]

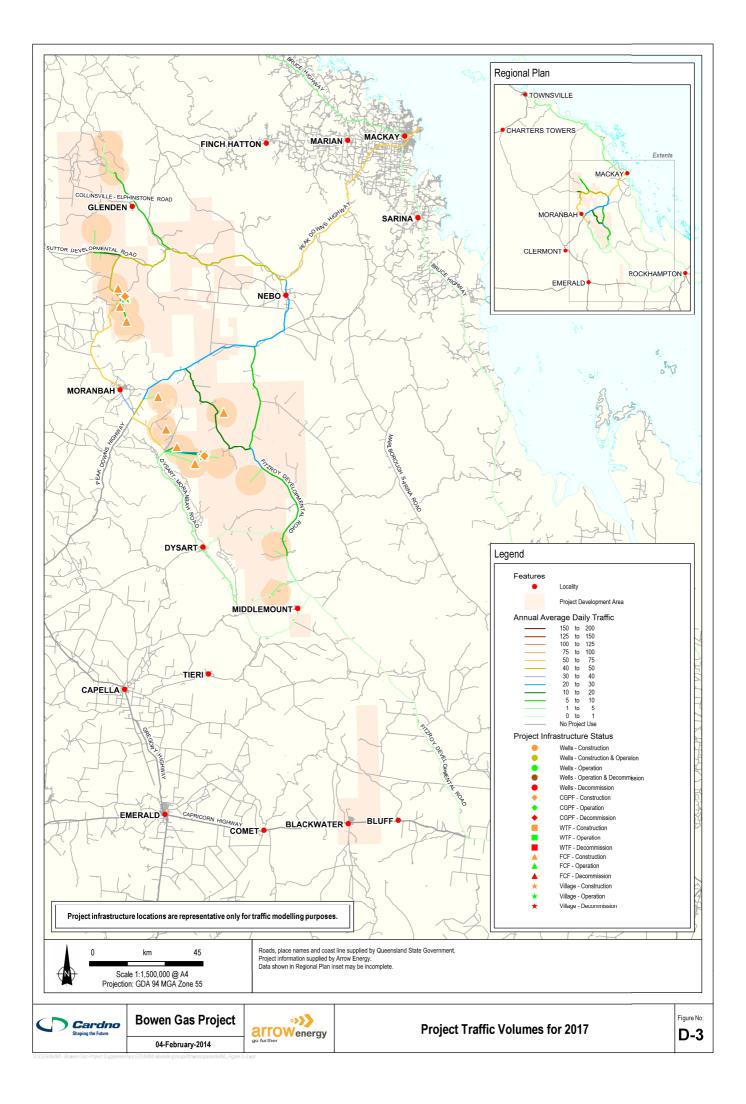
## Bowen Gas Project SREIS

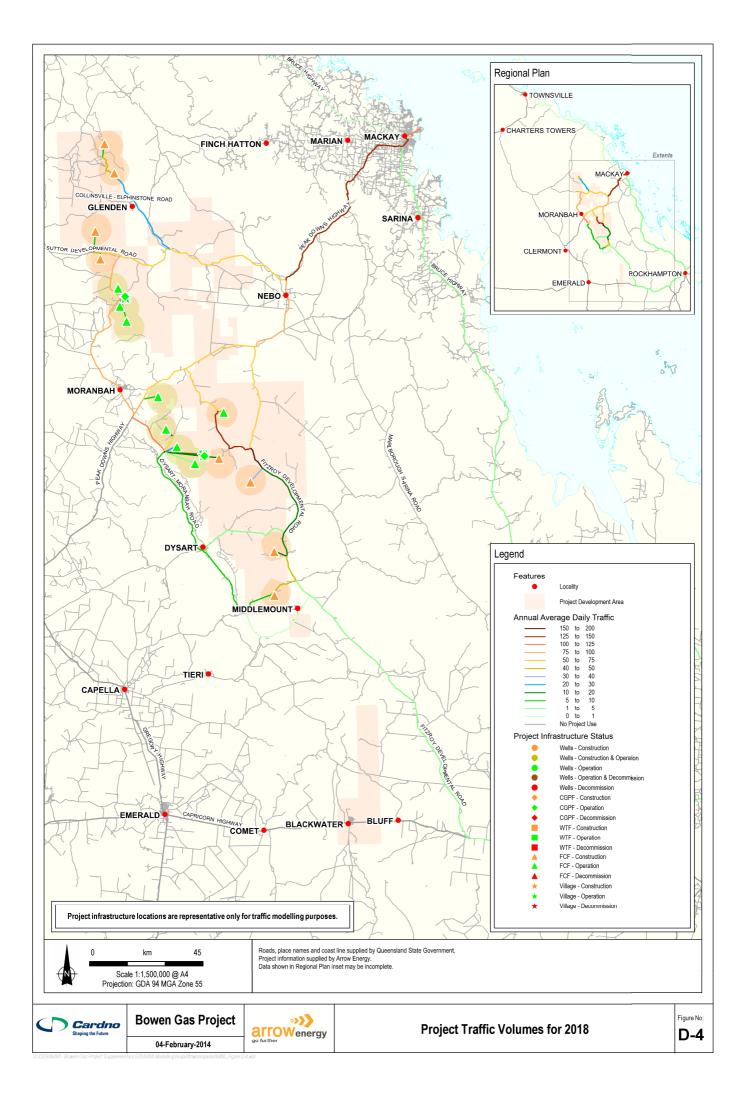
# APPENDIX D Annual Project Traffic Demand Forecasts

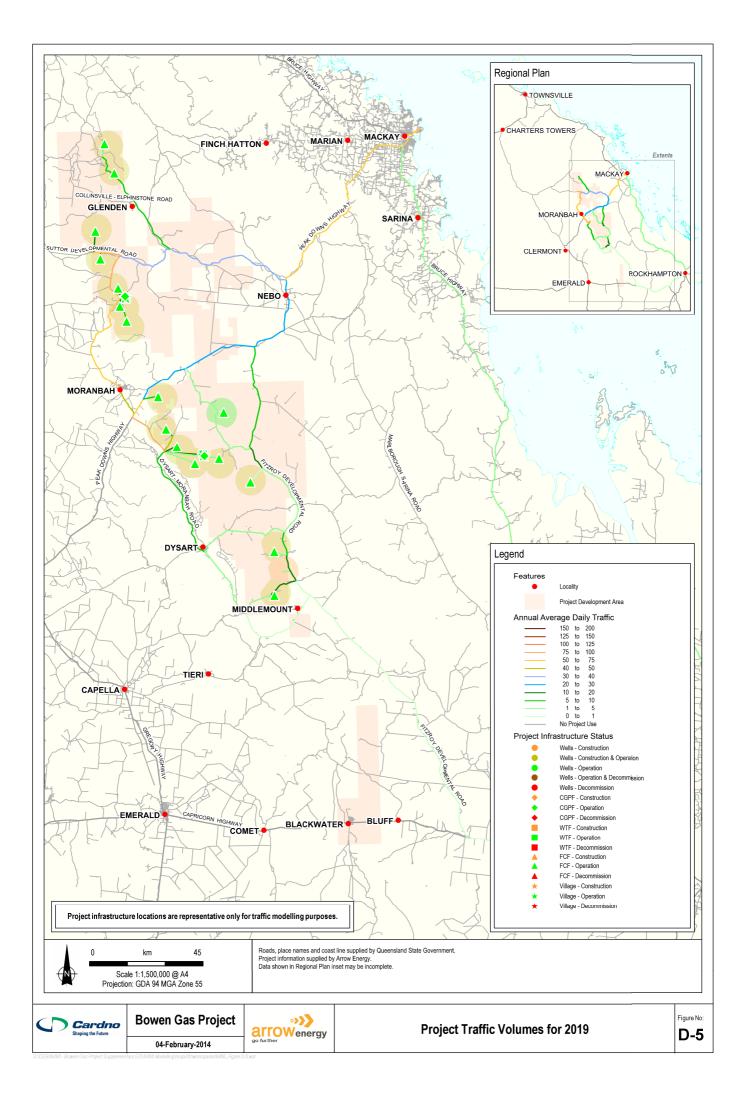


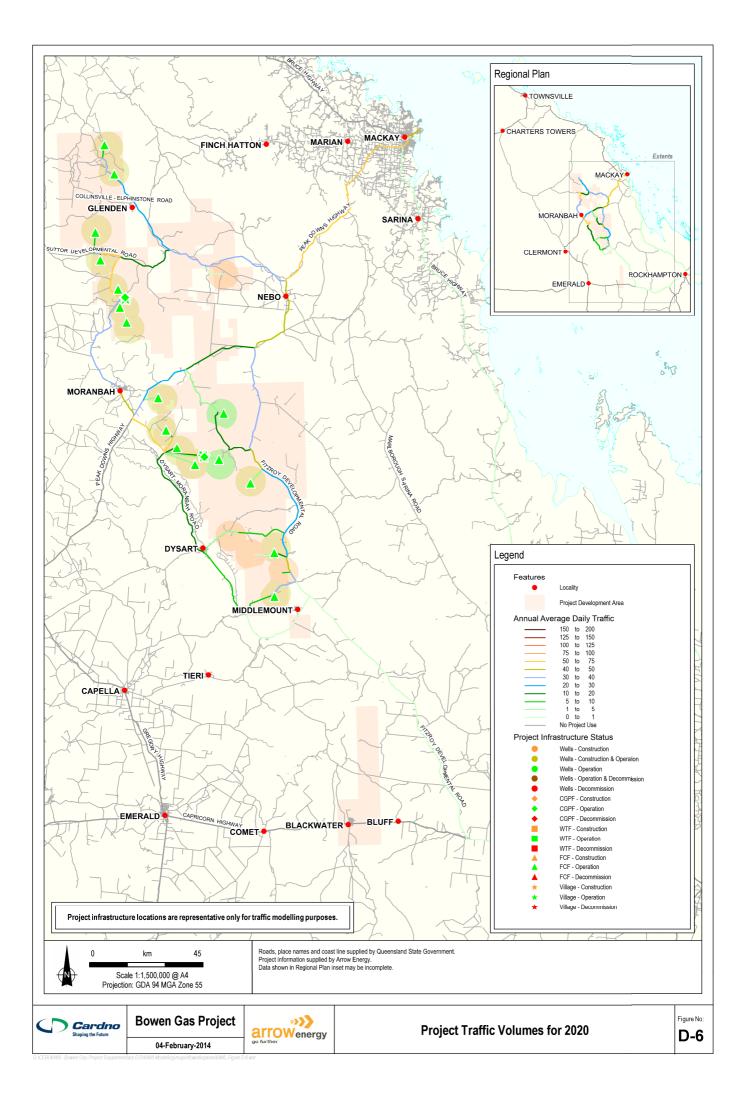


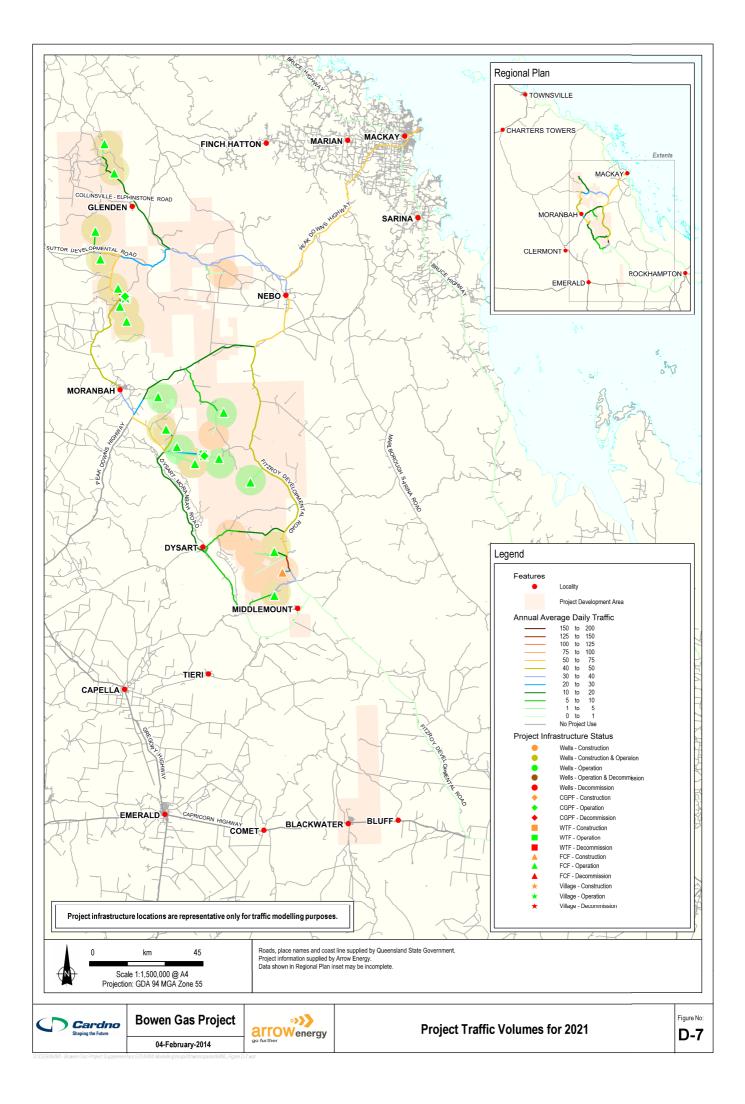


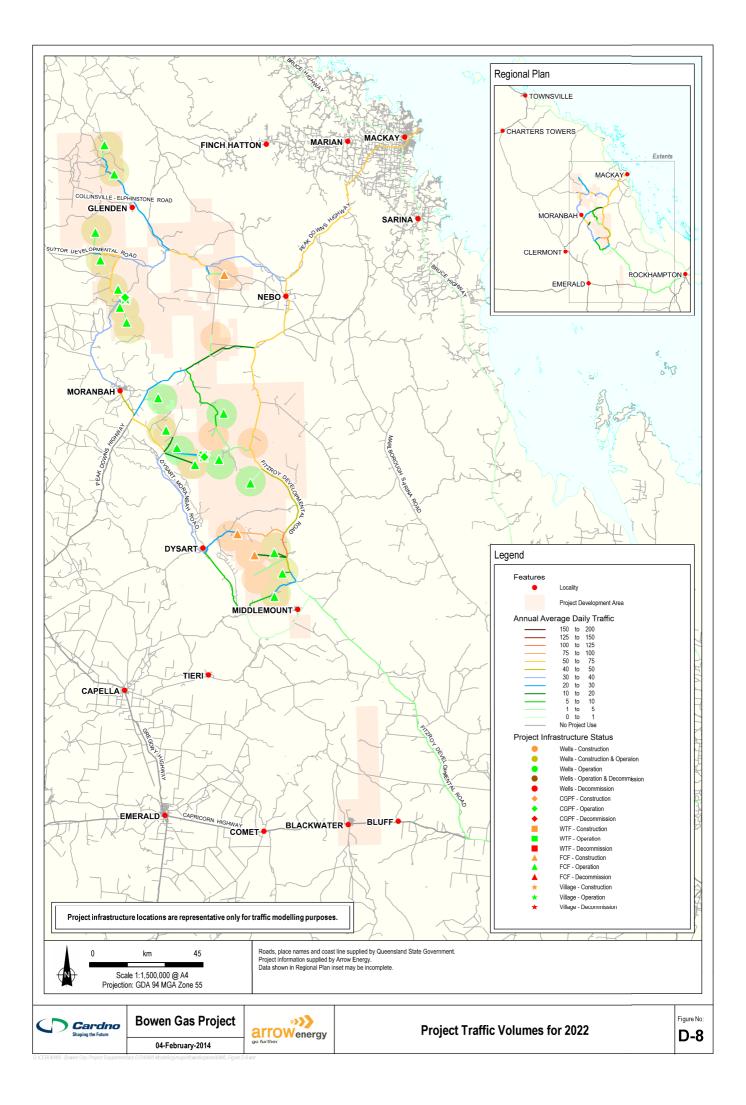


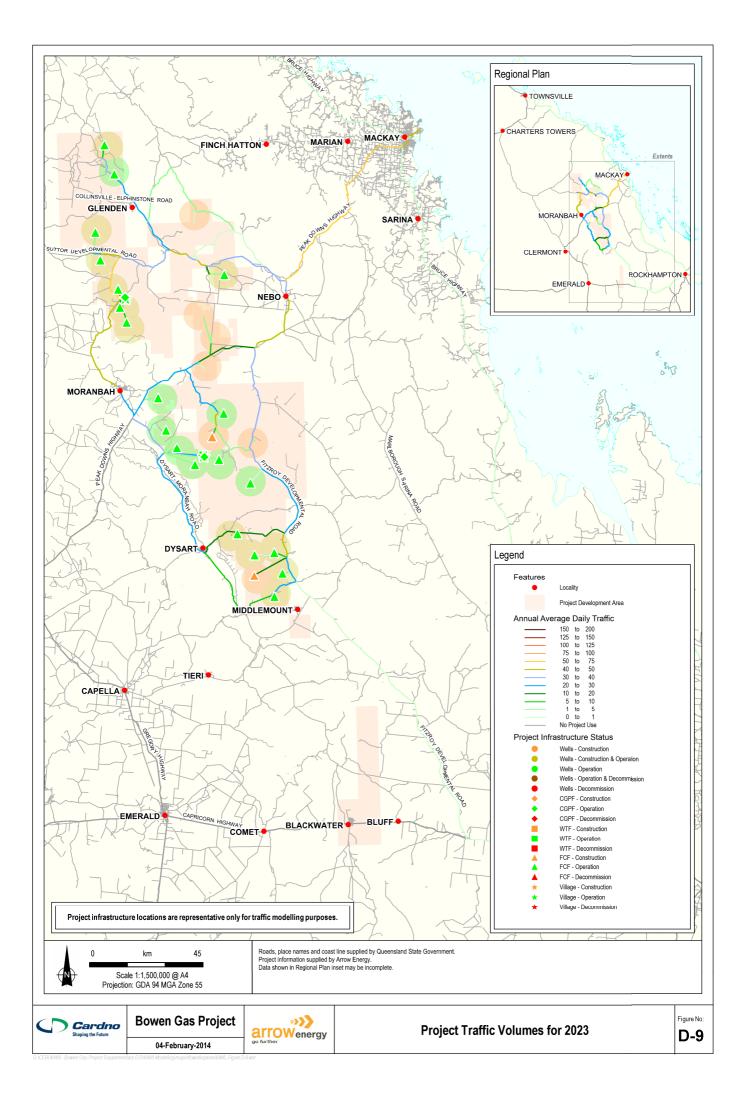


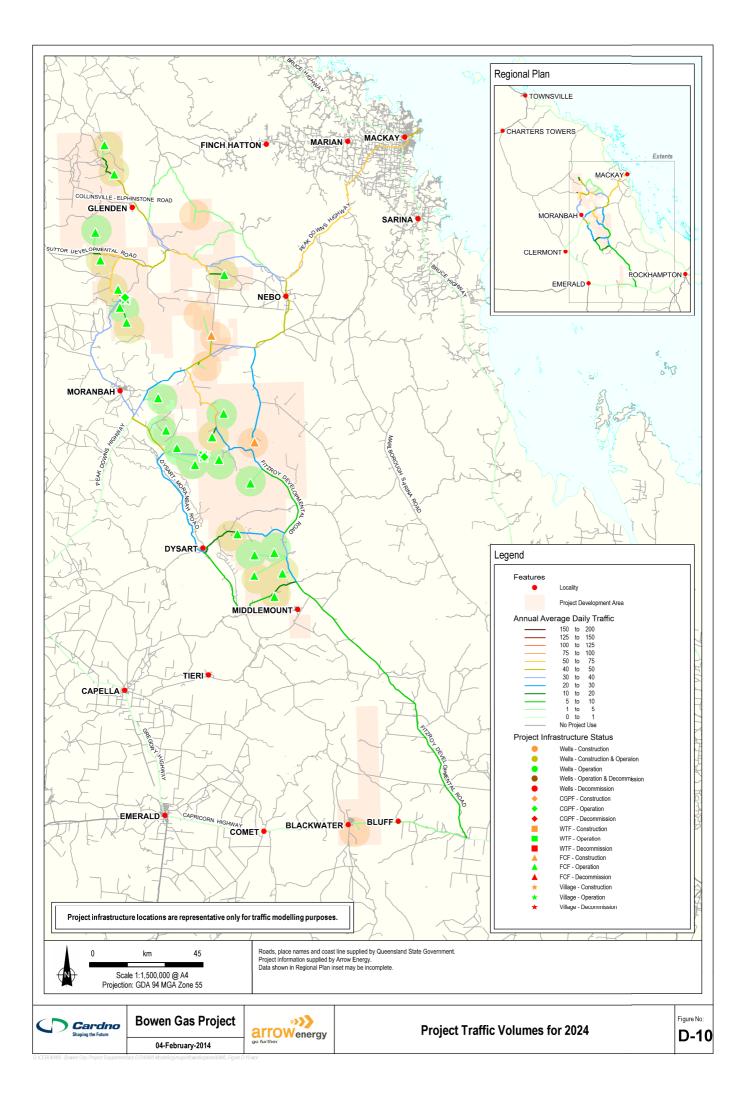


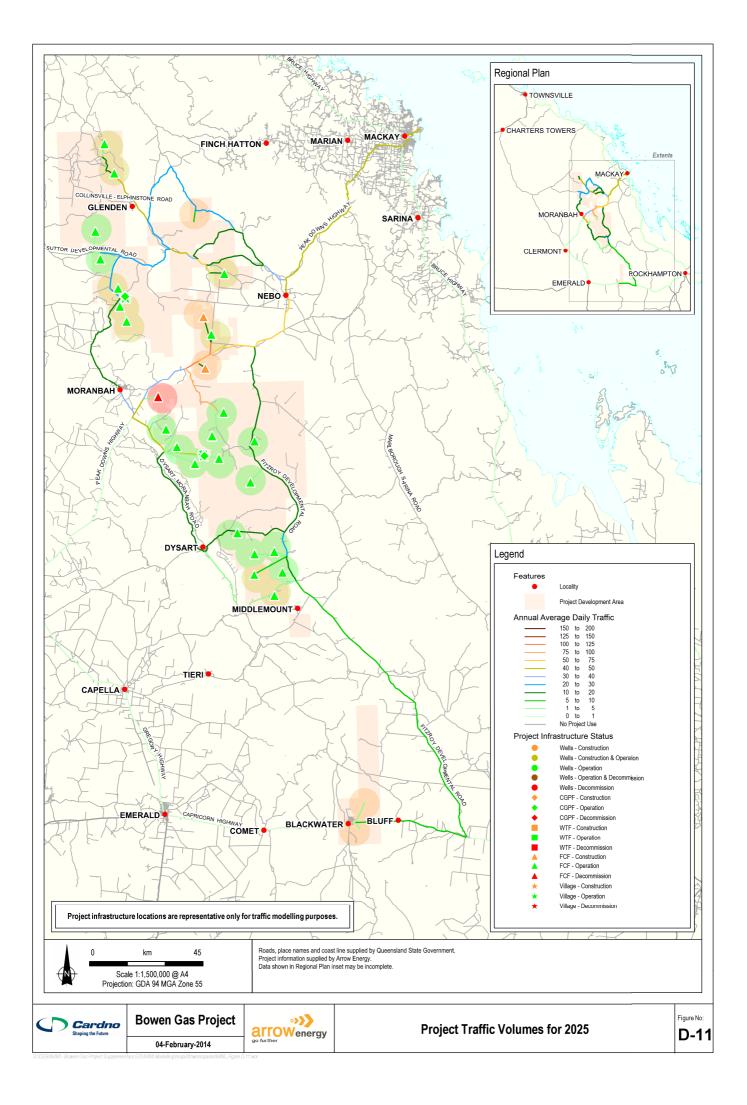


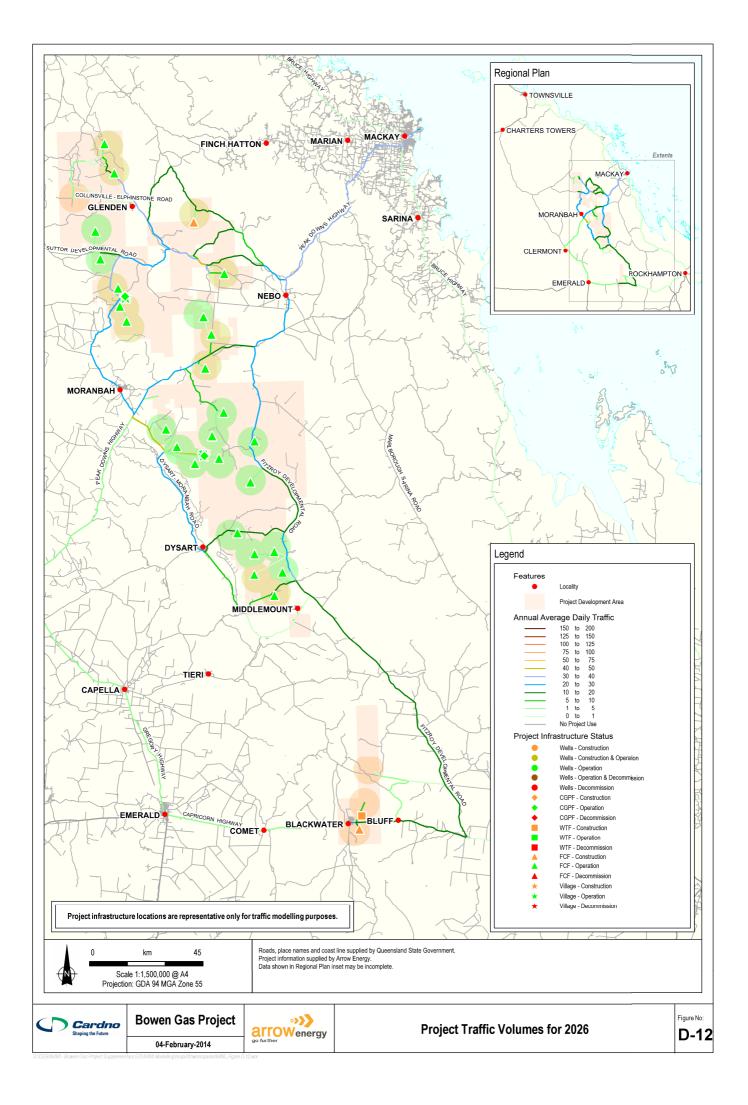


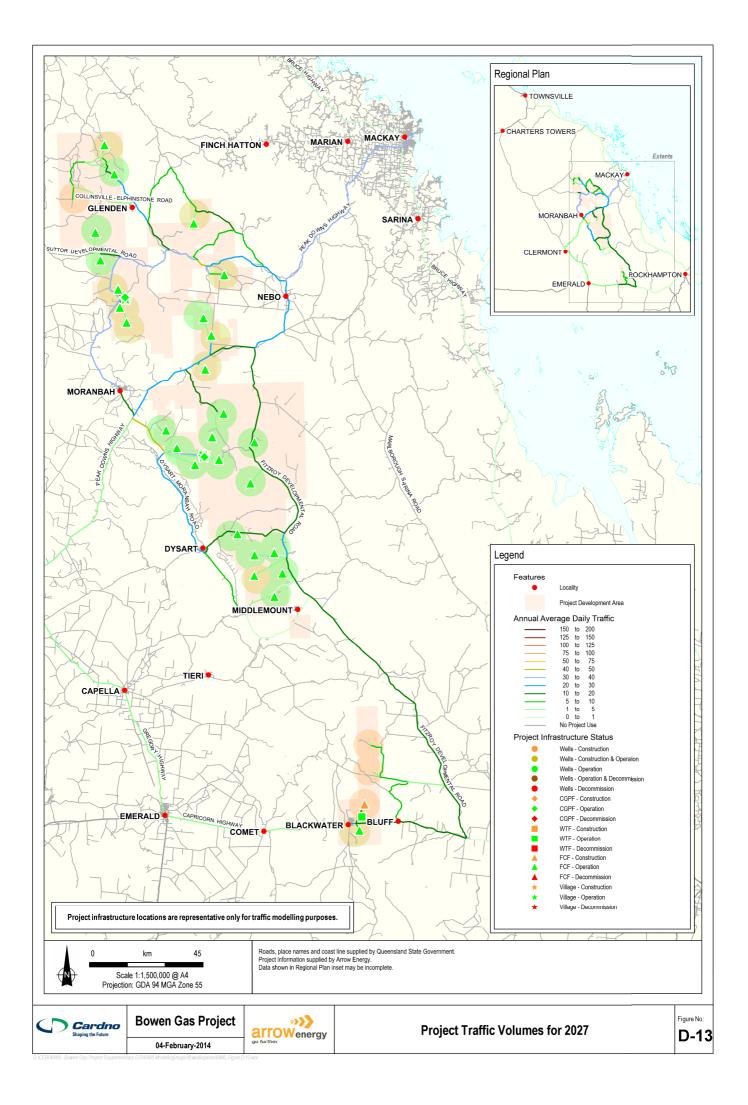


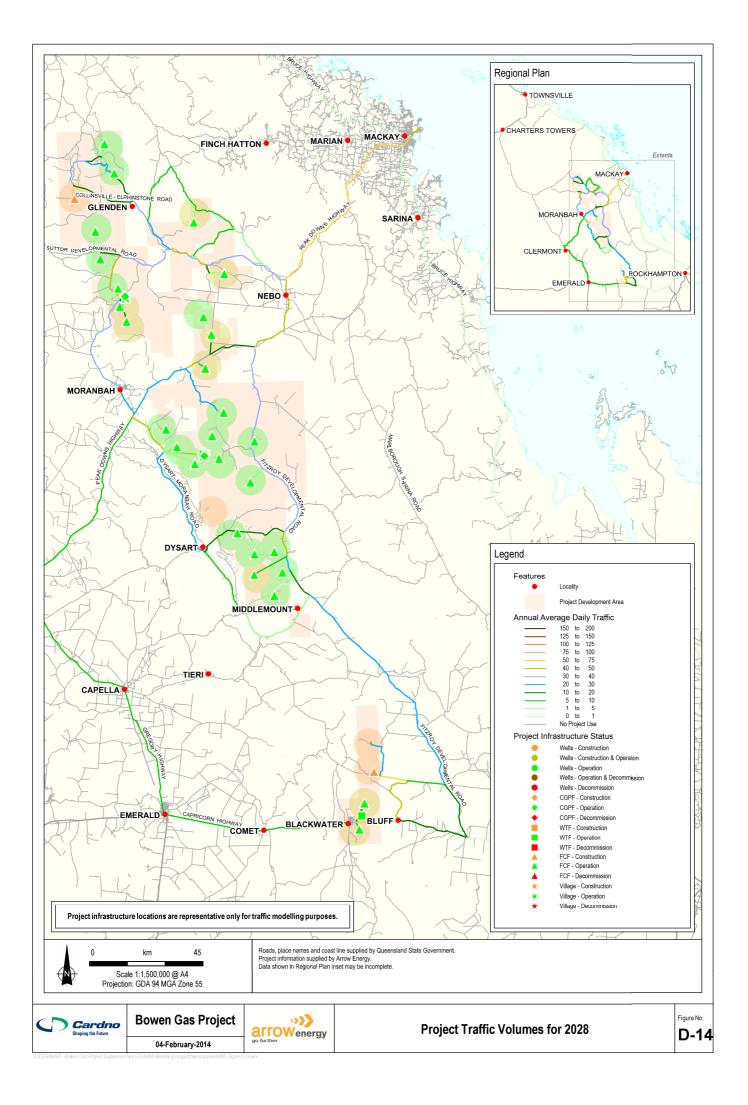


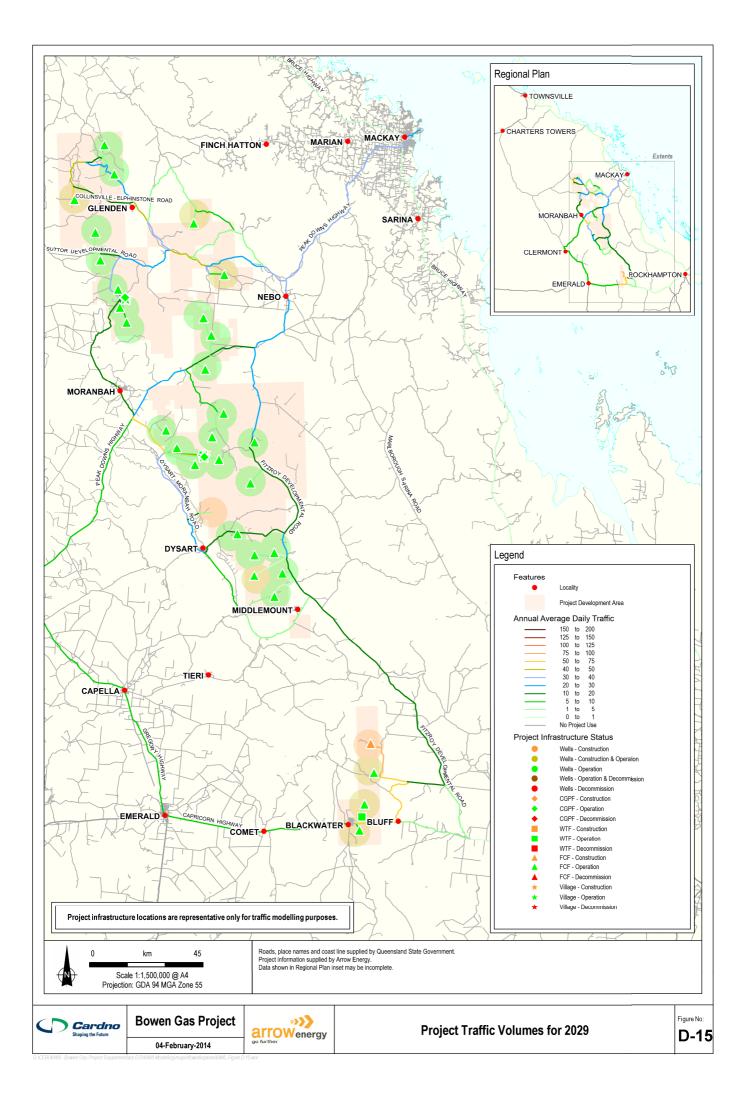


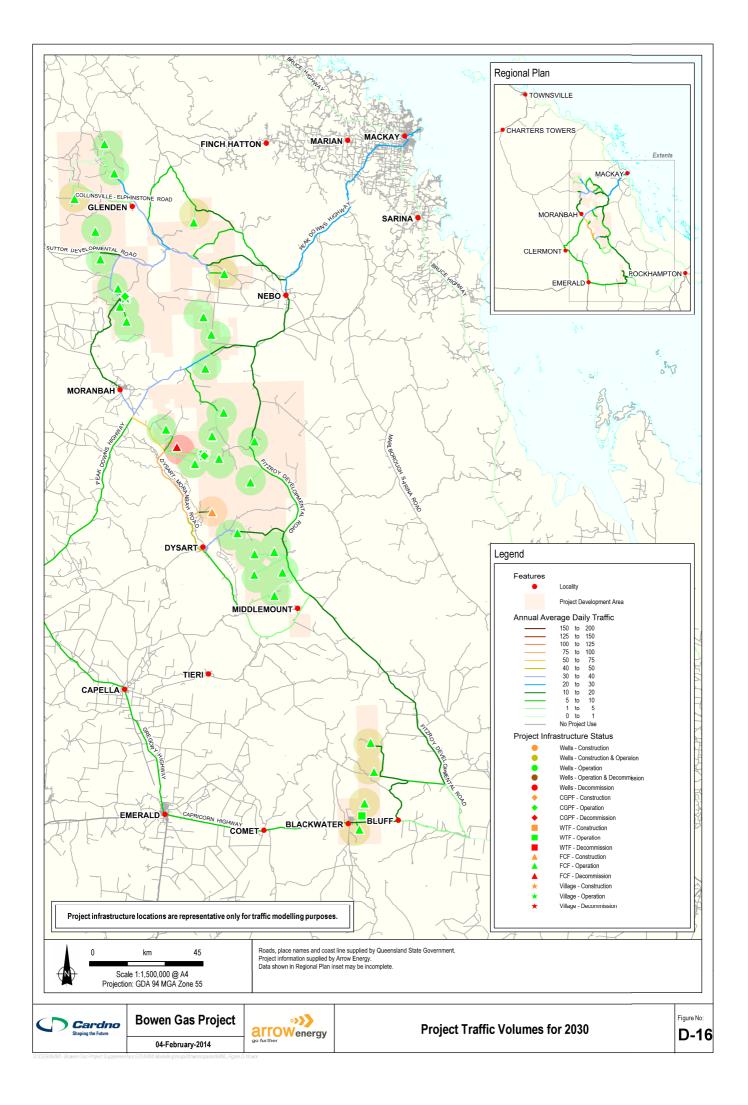


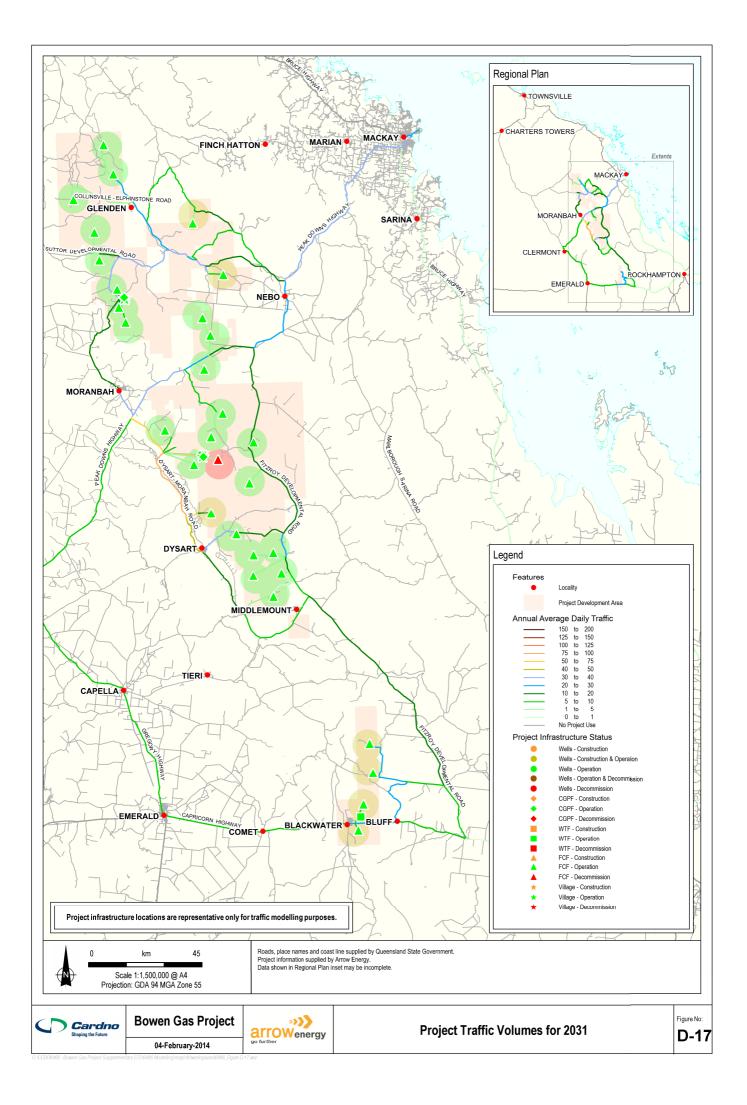


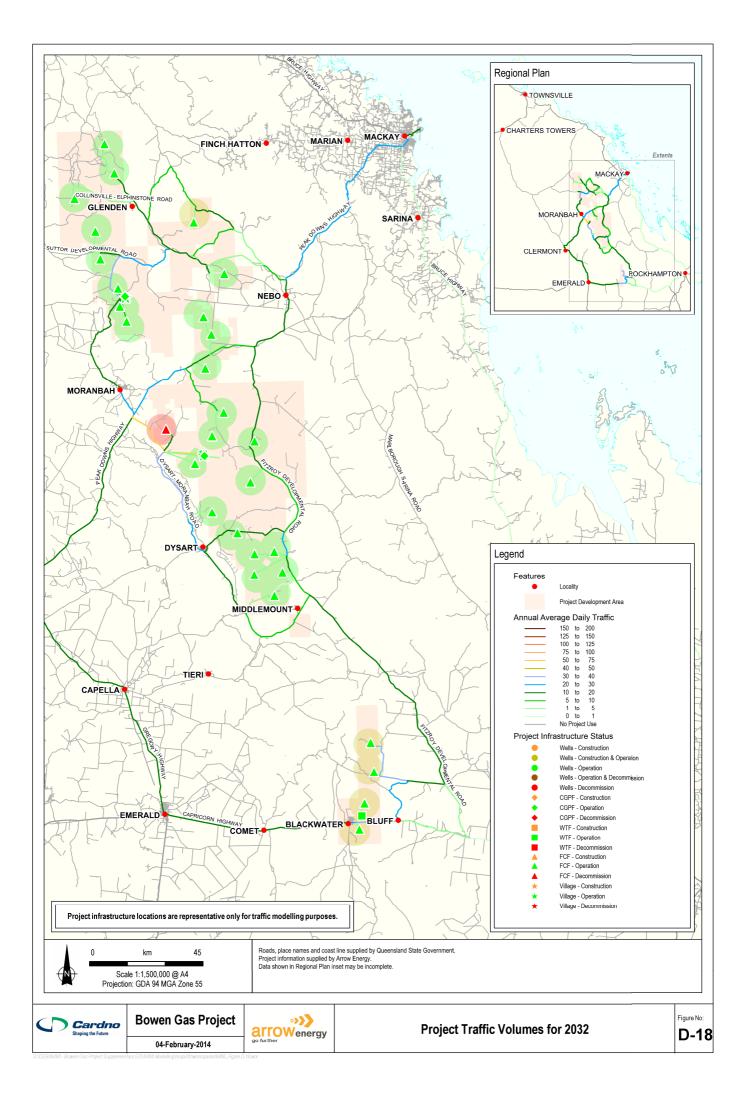


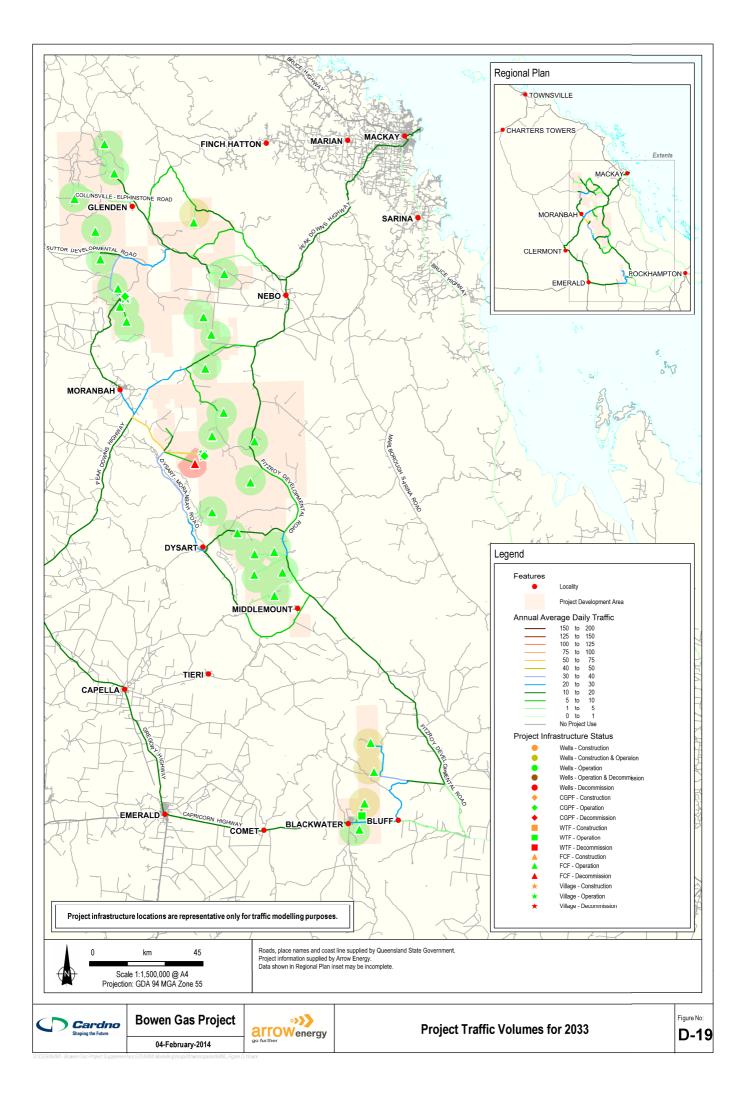


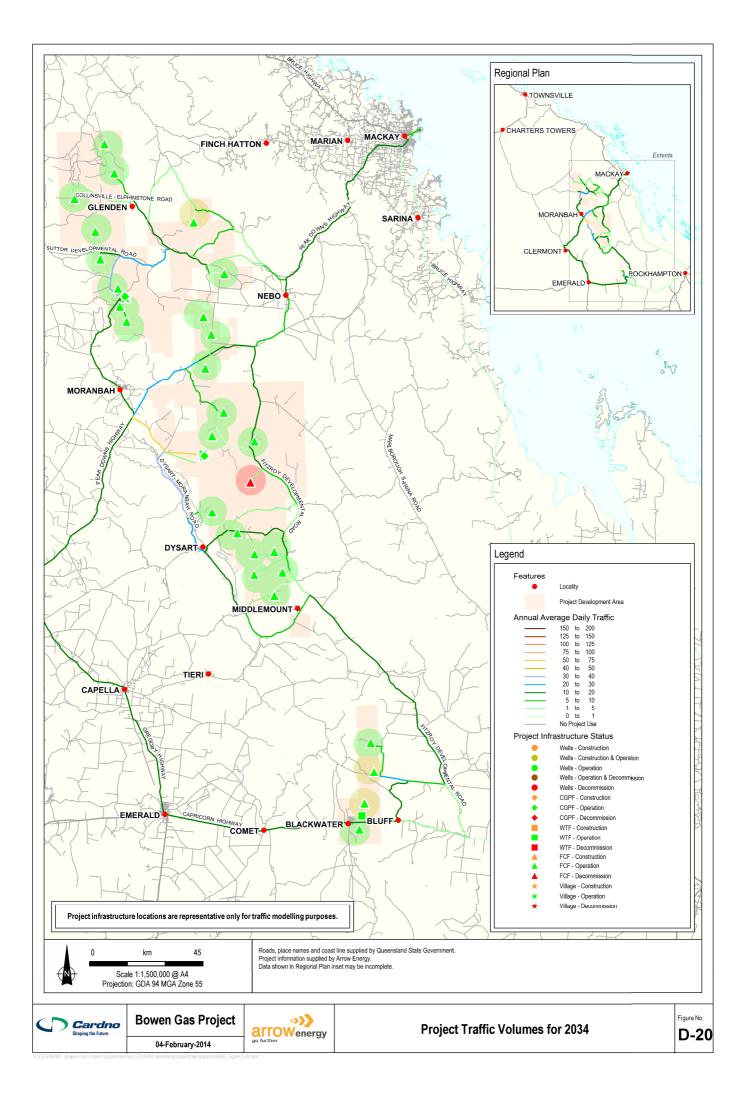


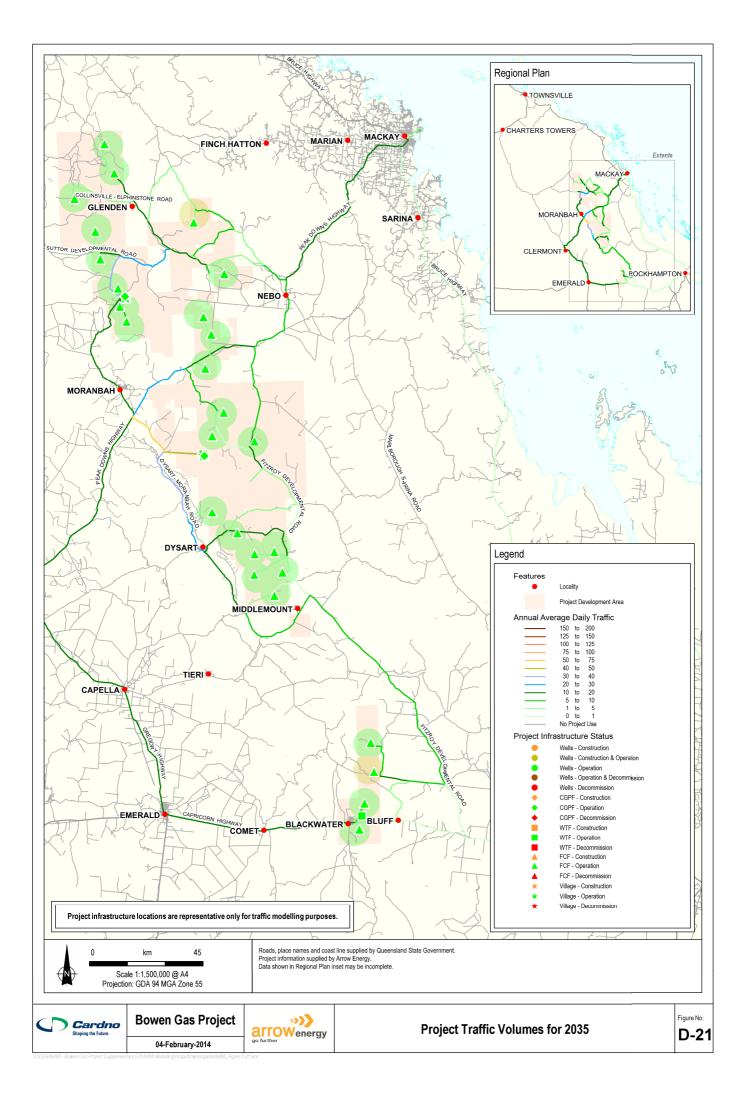


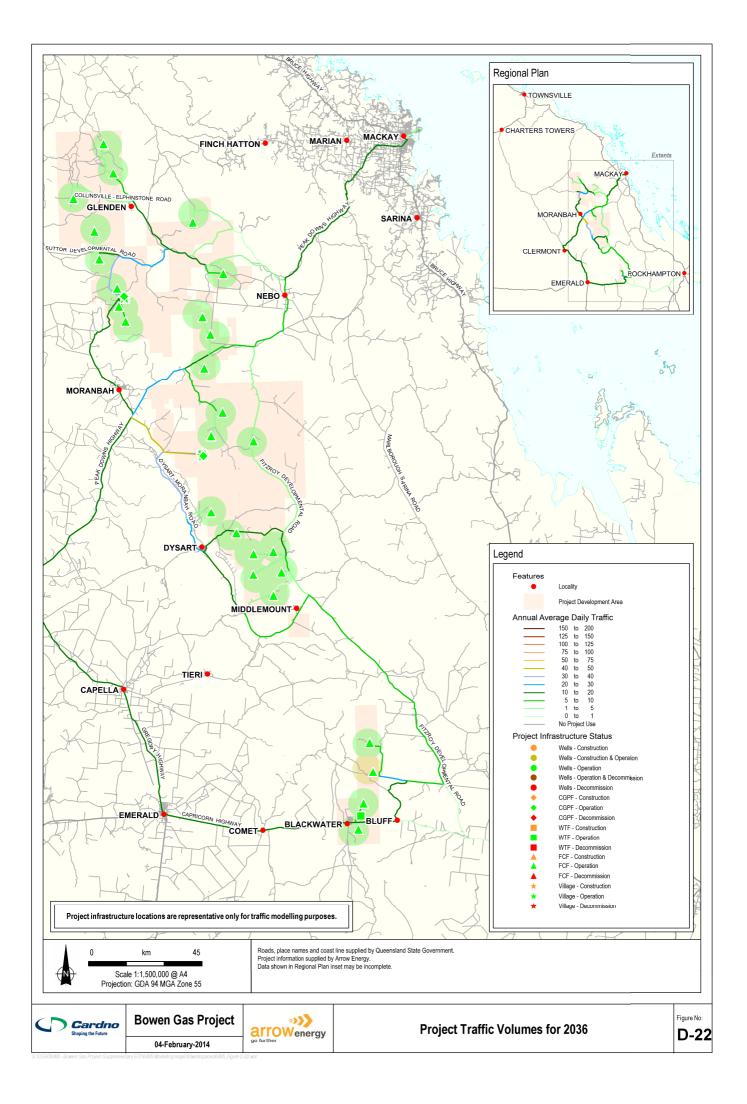


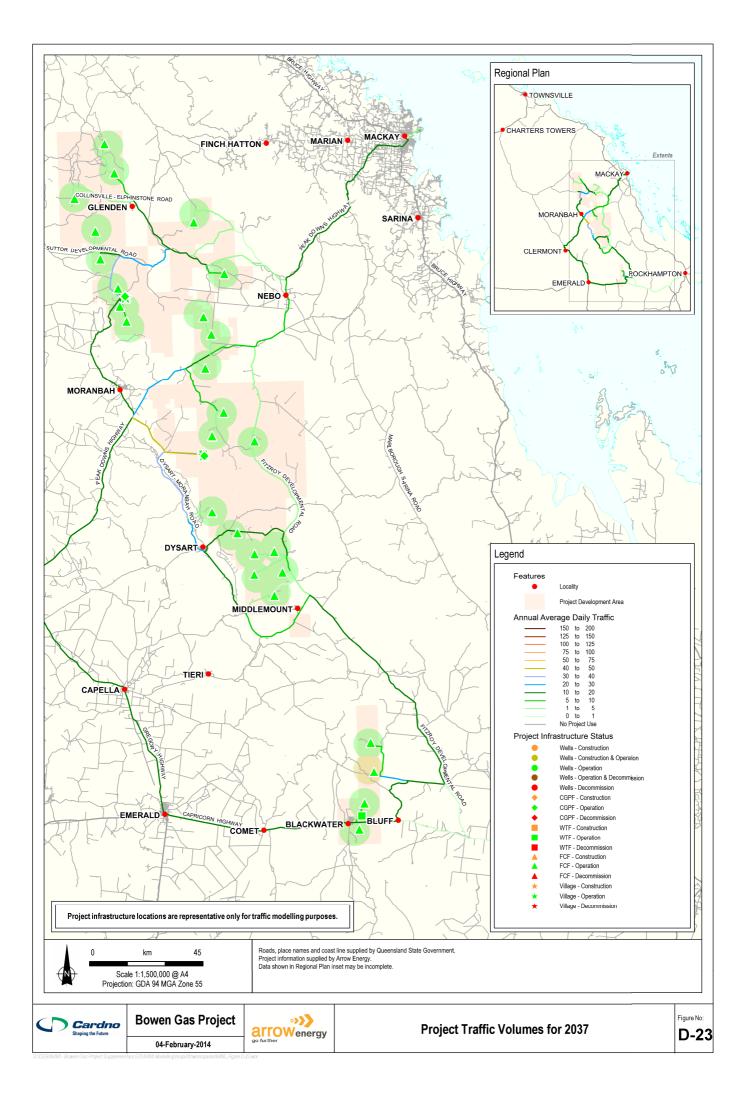


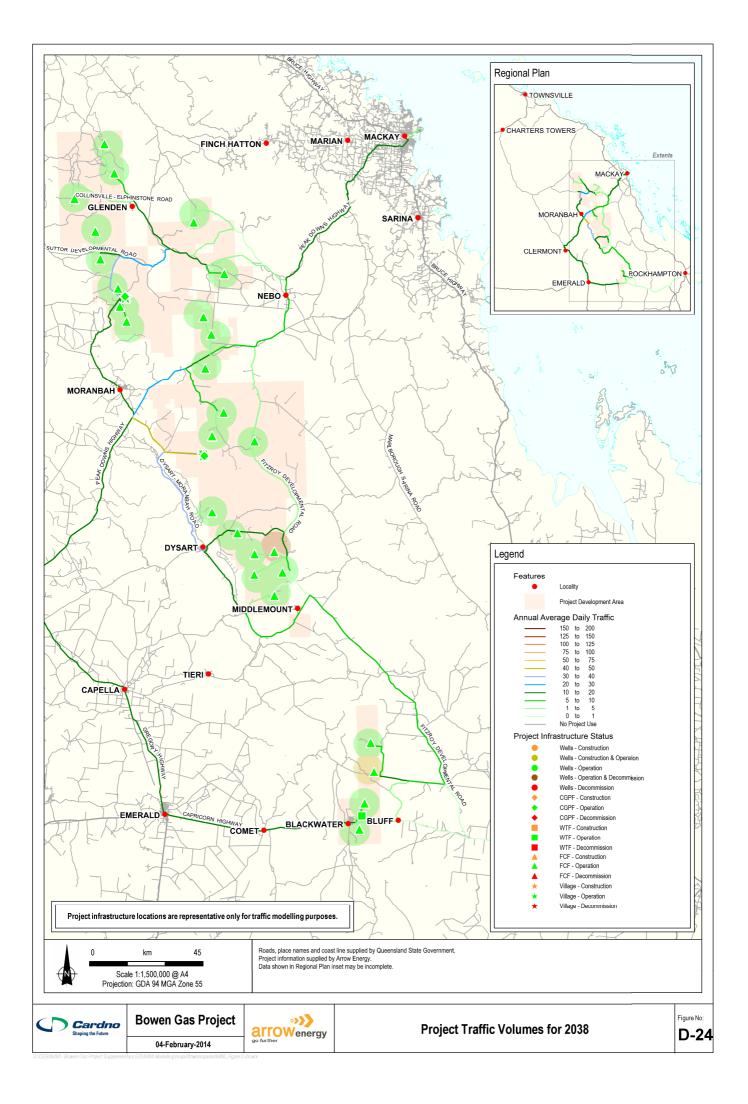


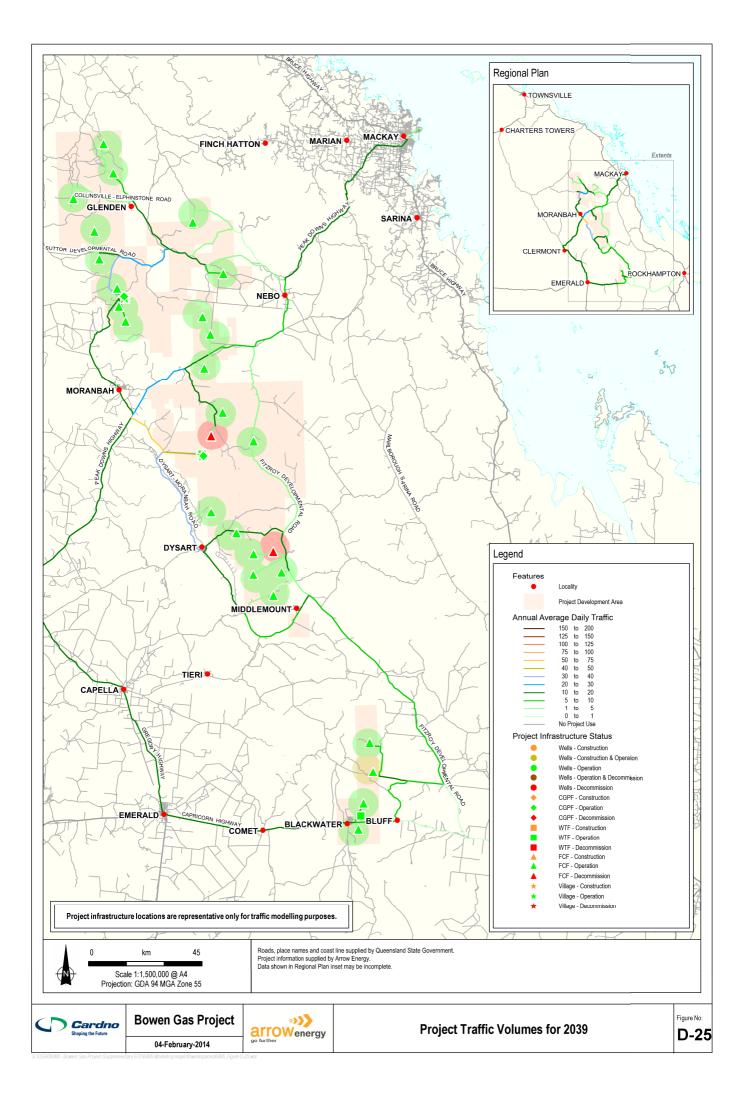


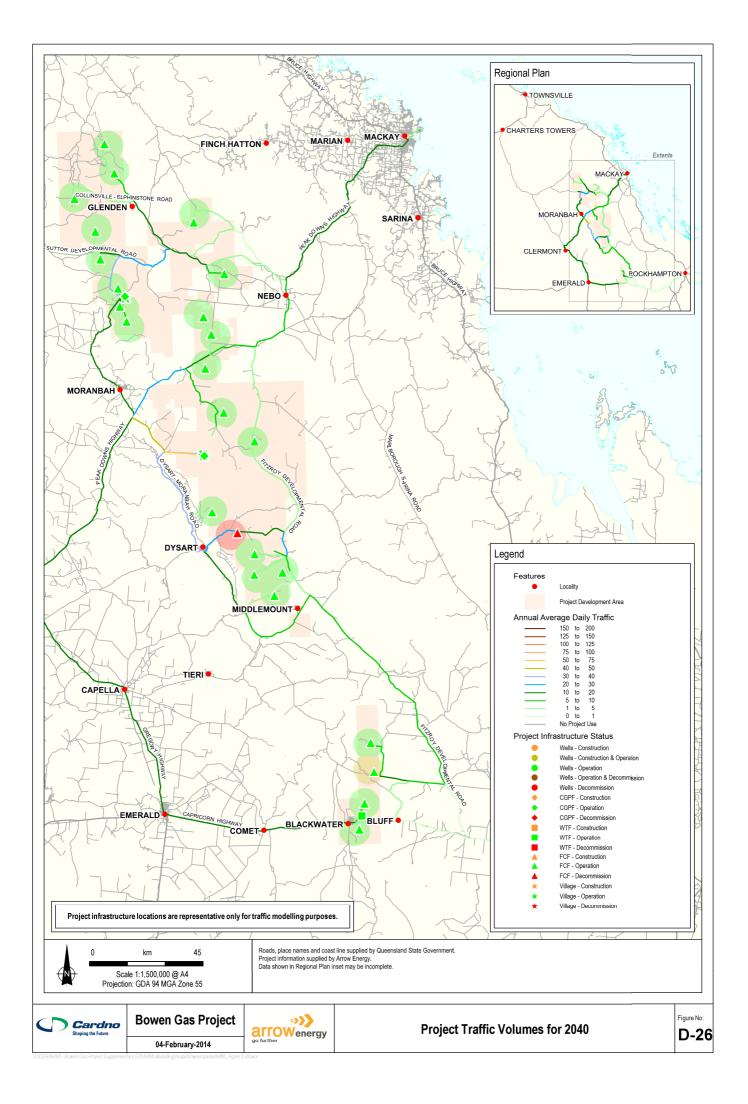


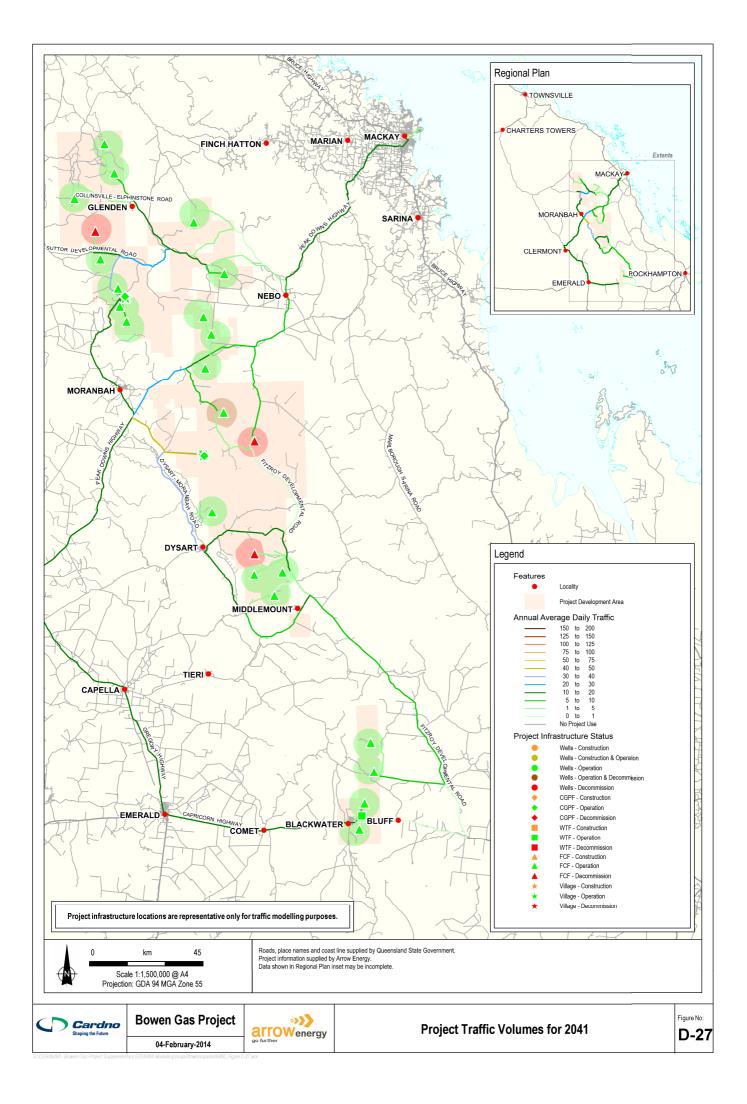


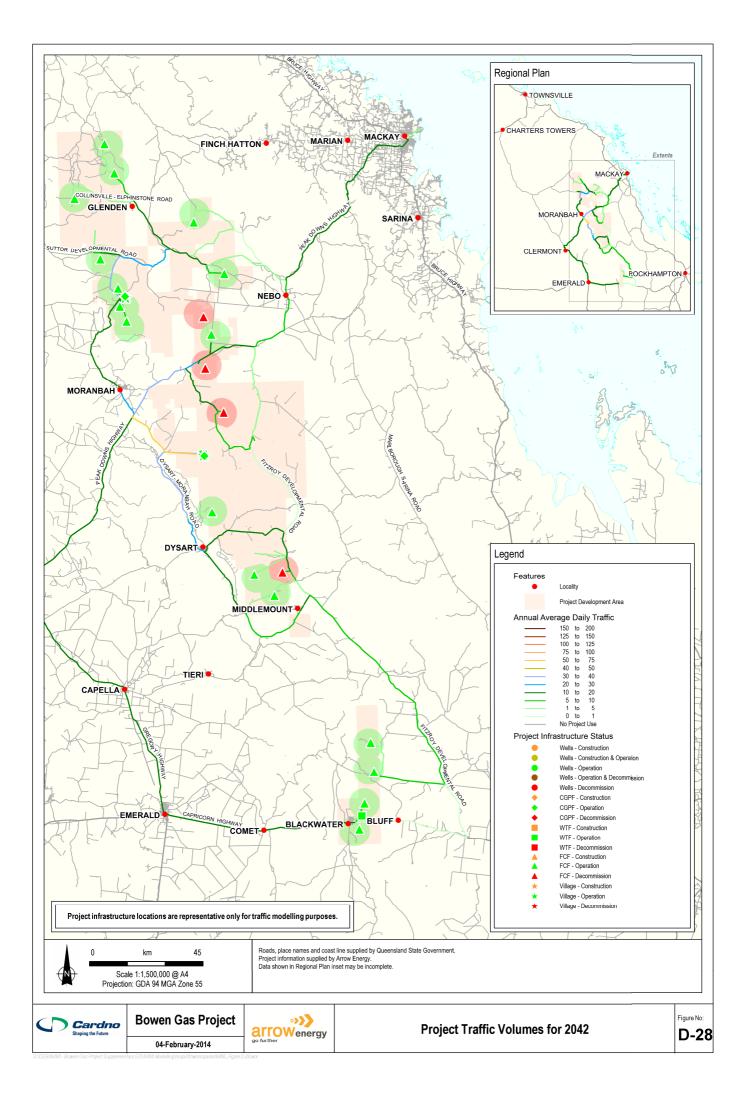


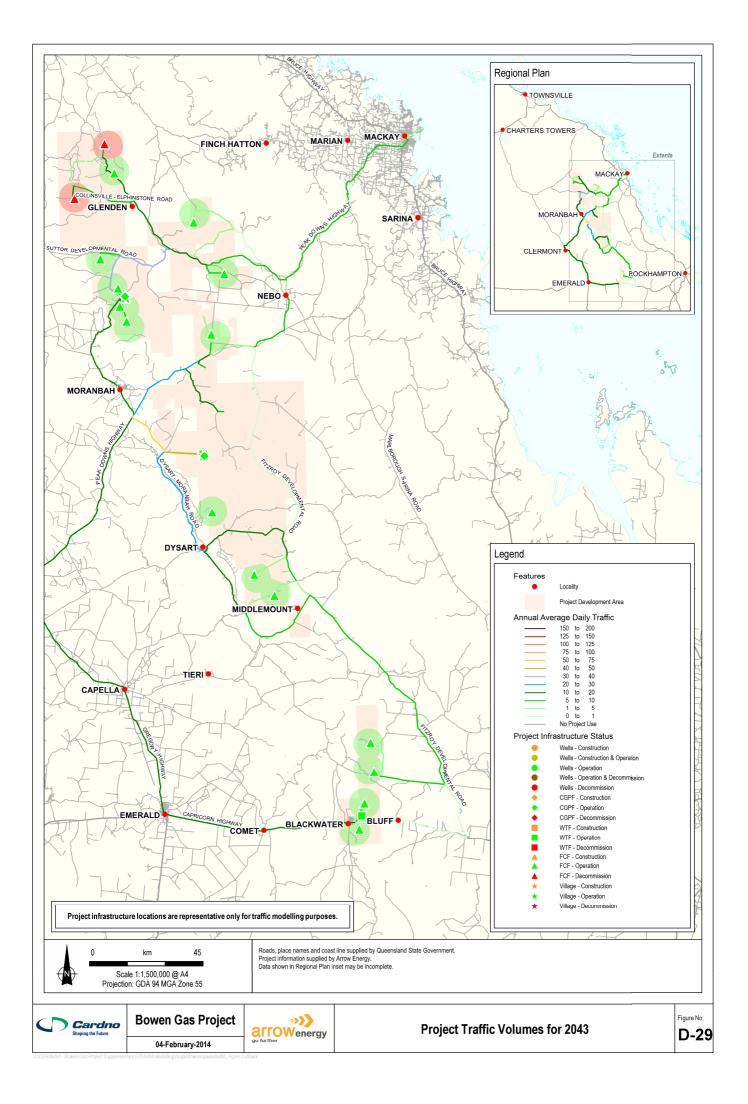


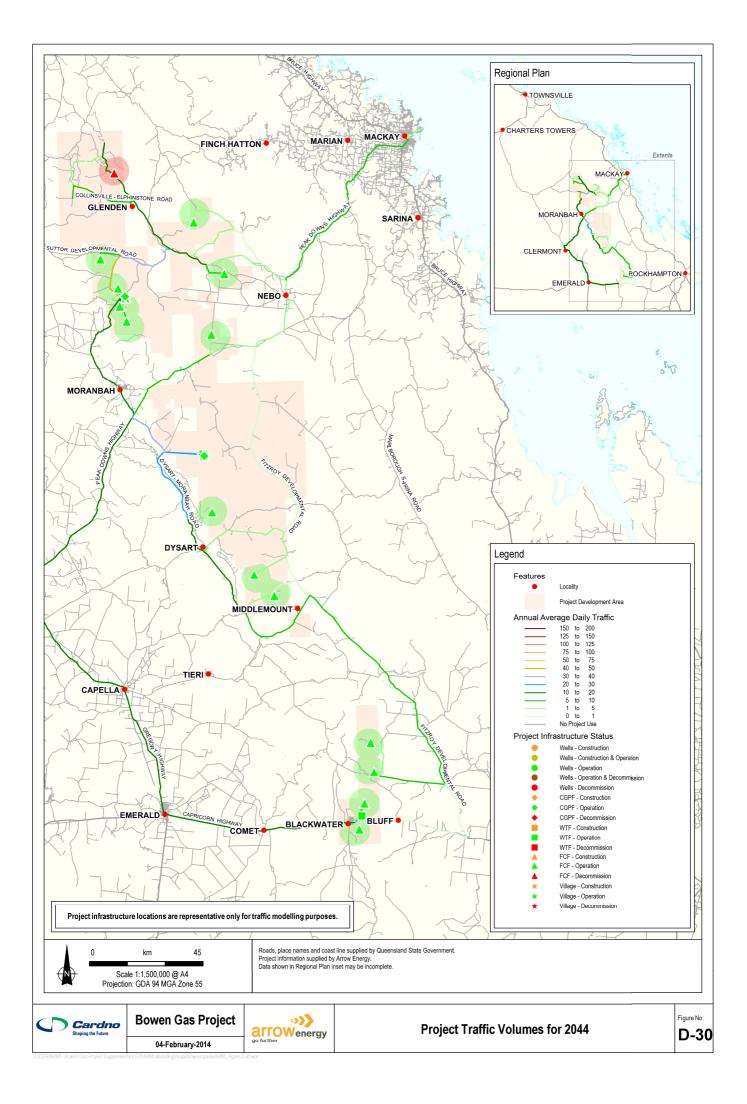


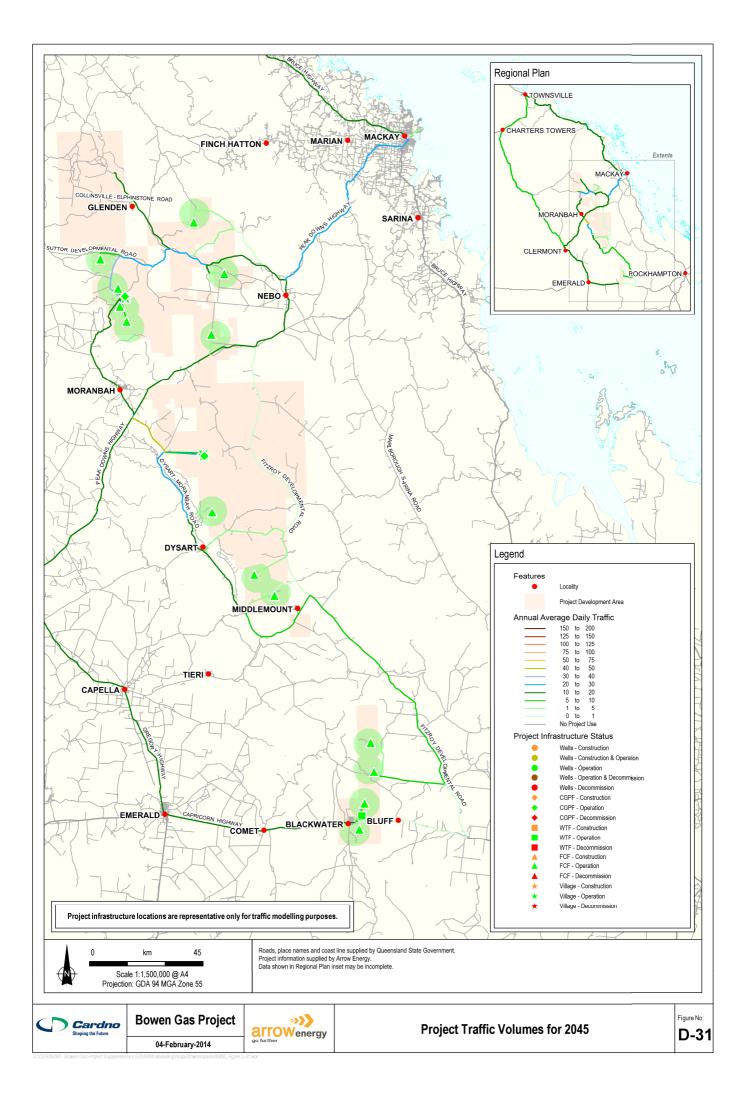


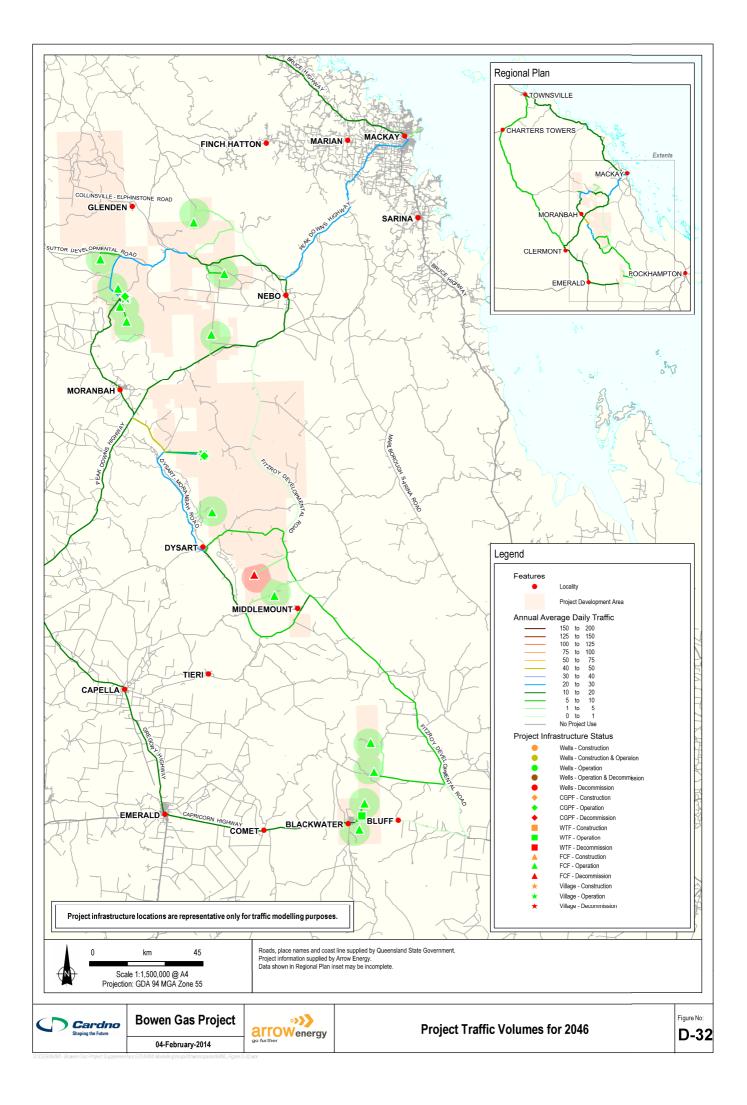


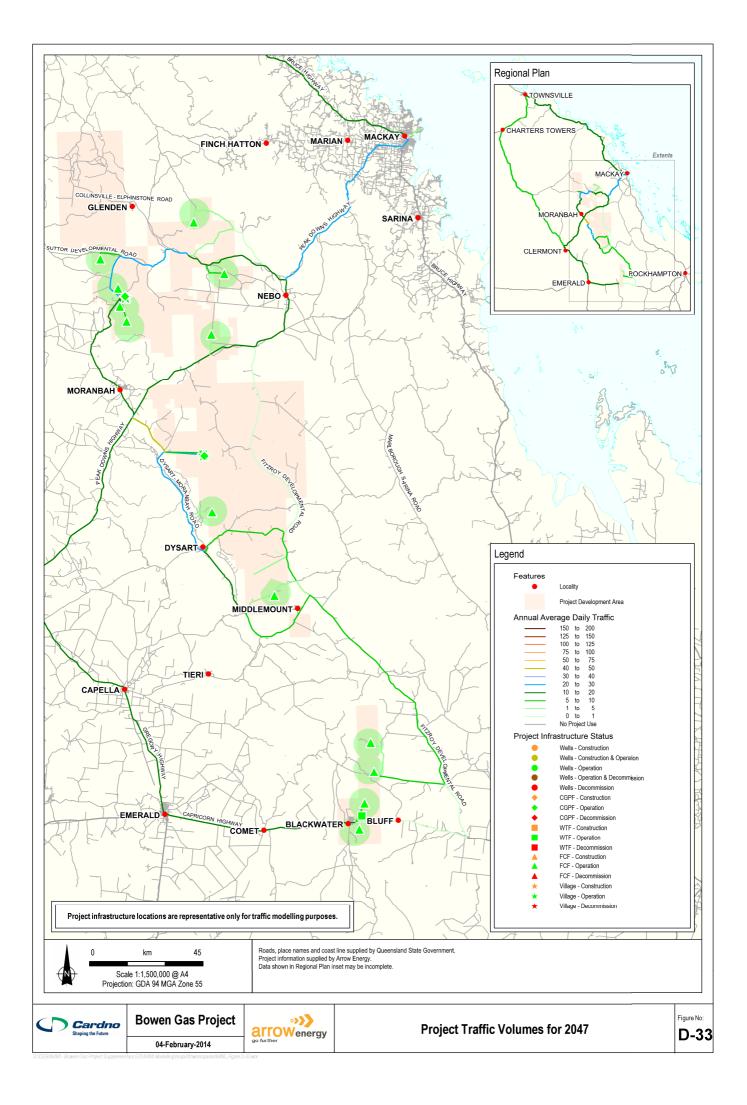


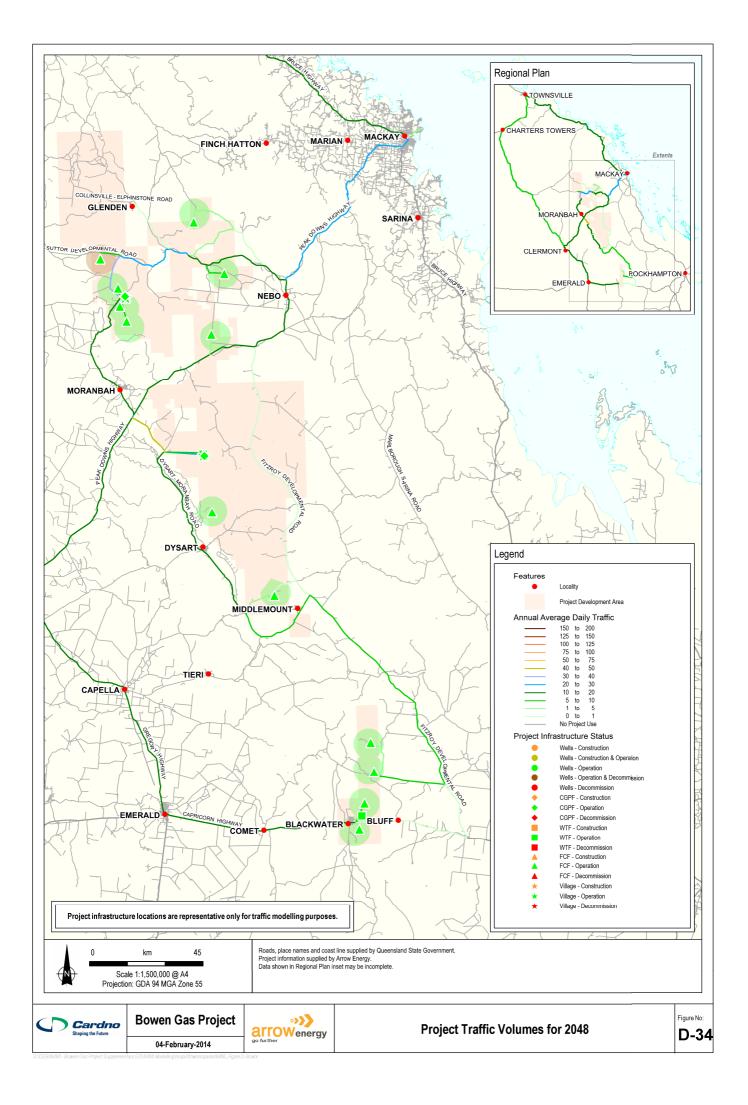


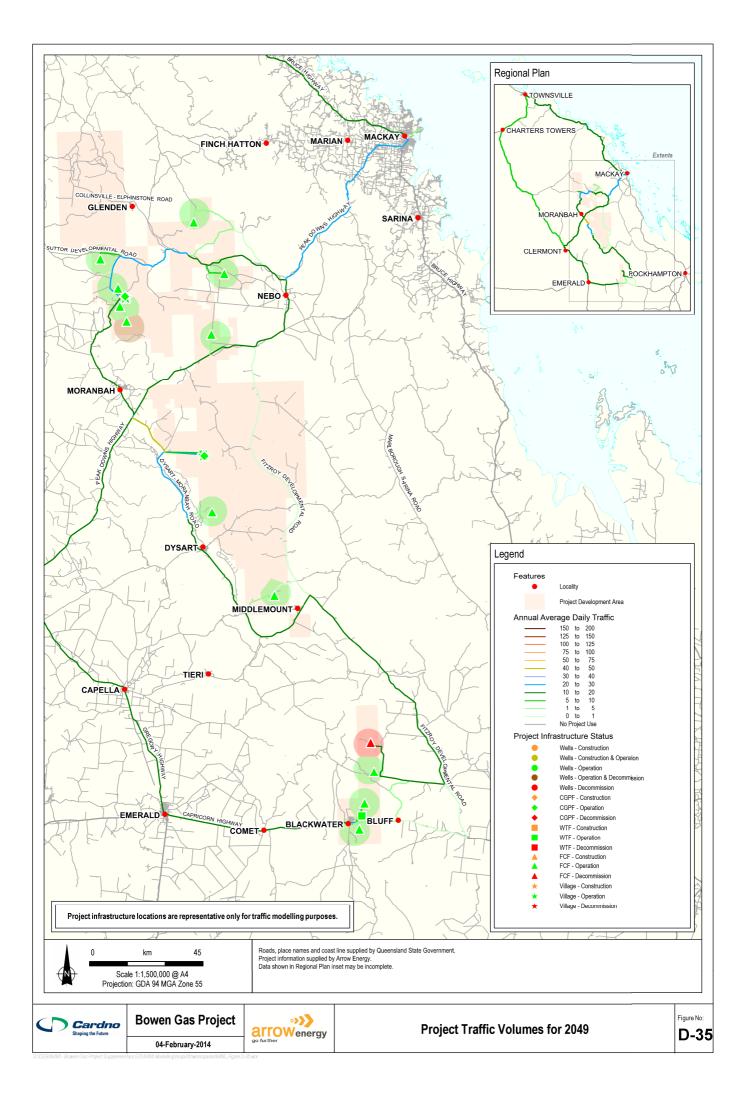


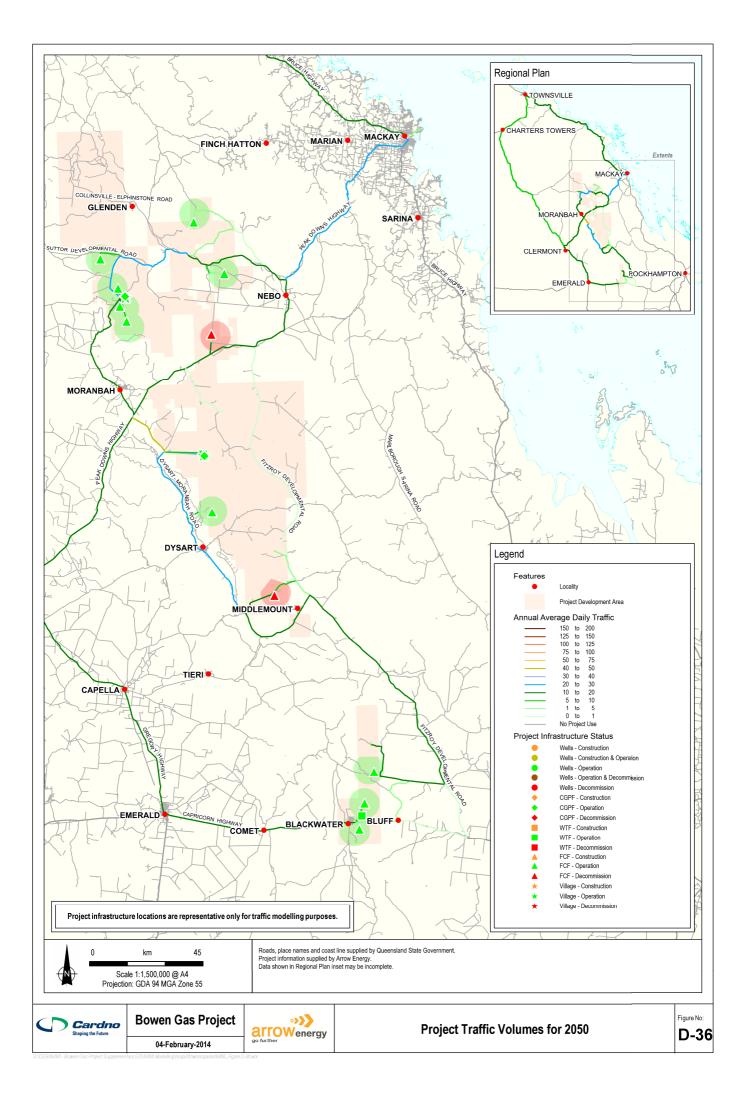


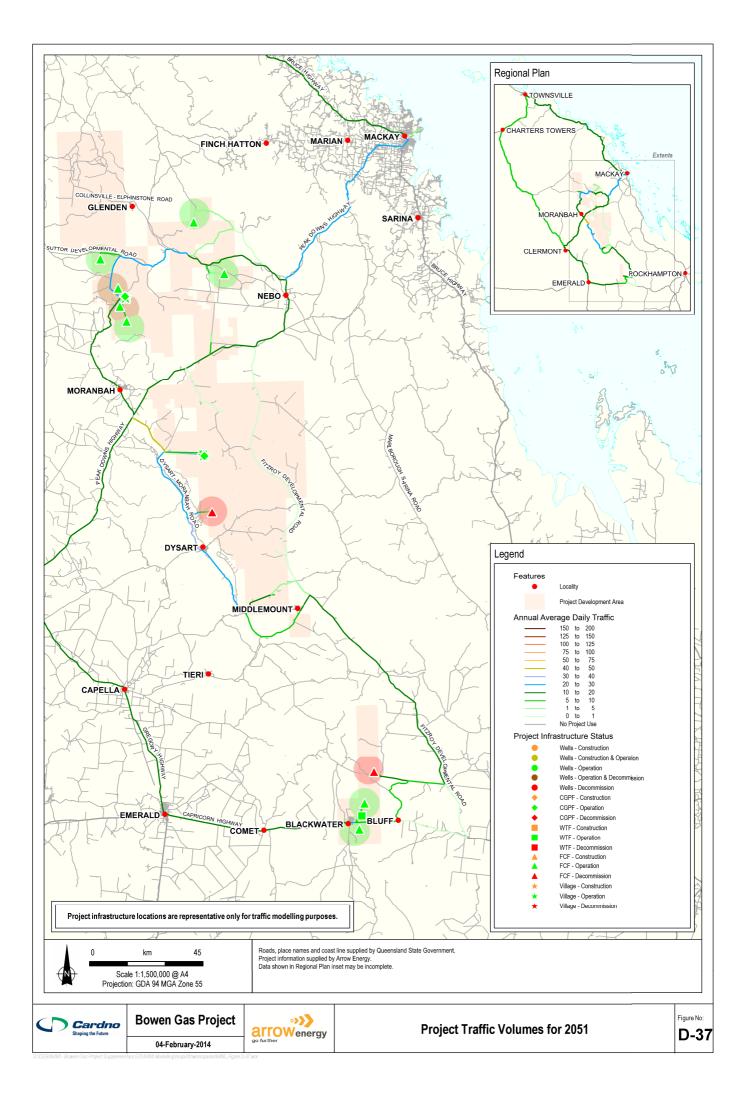


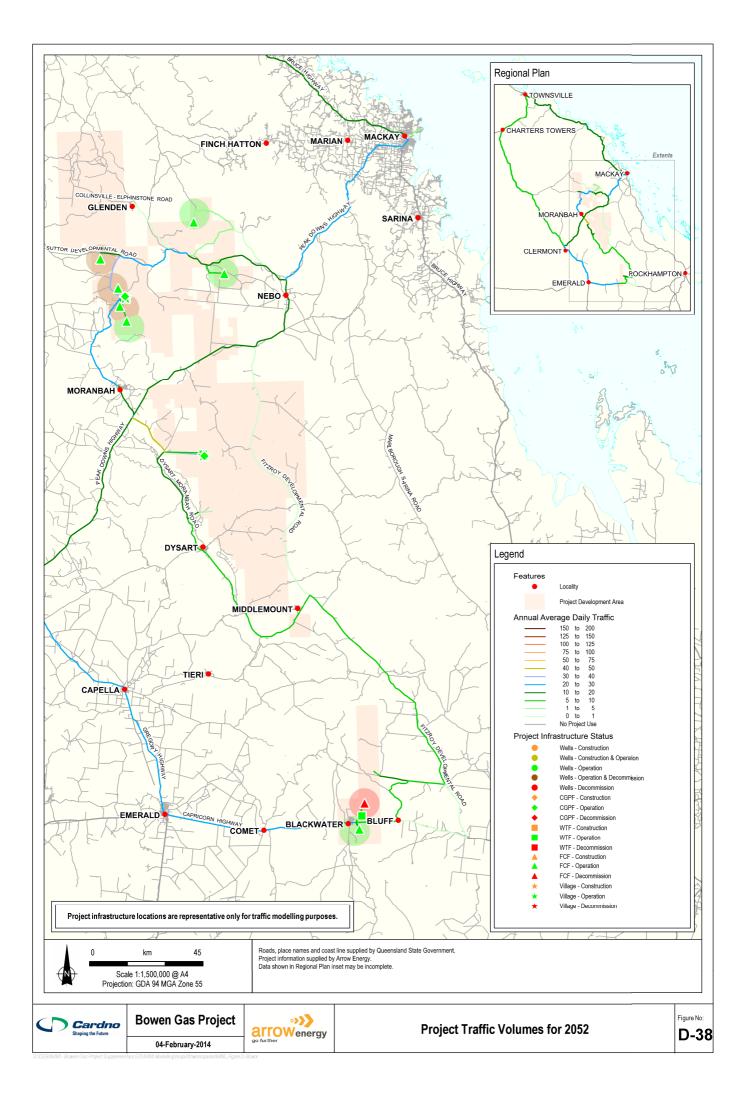


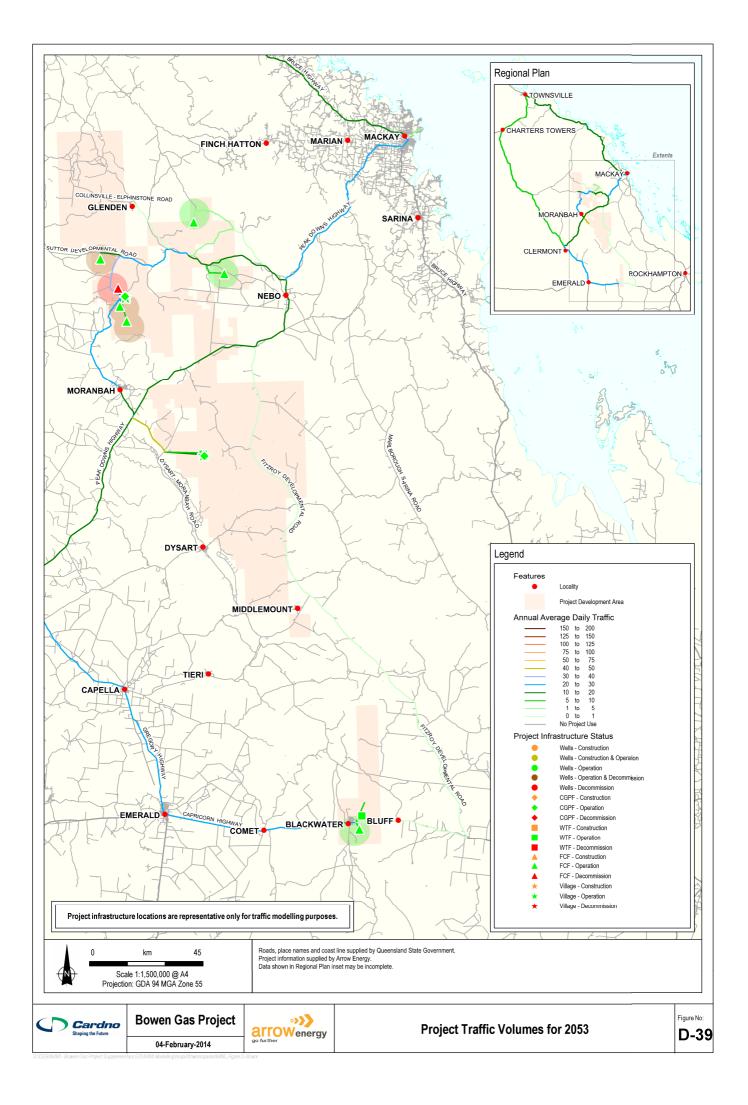


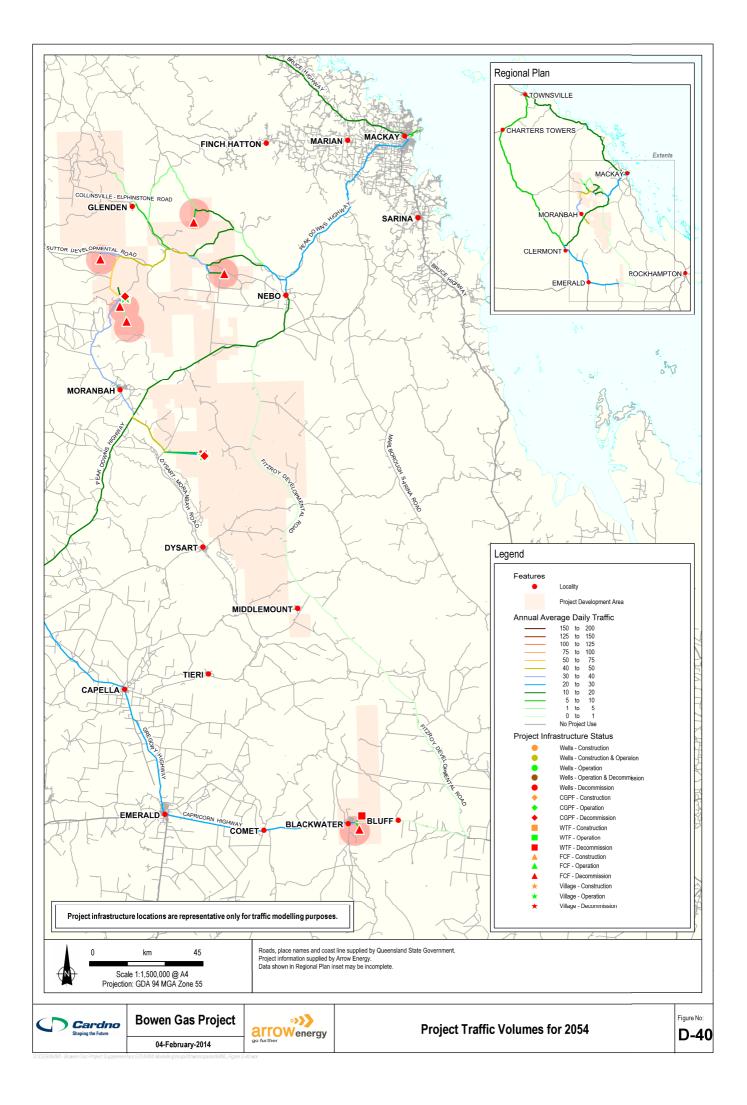


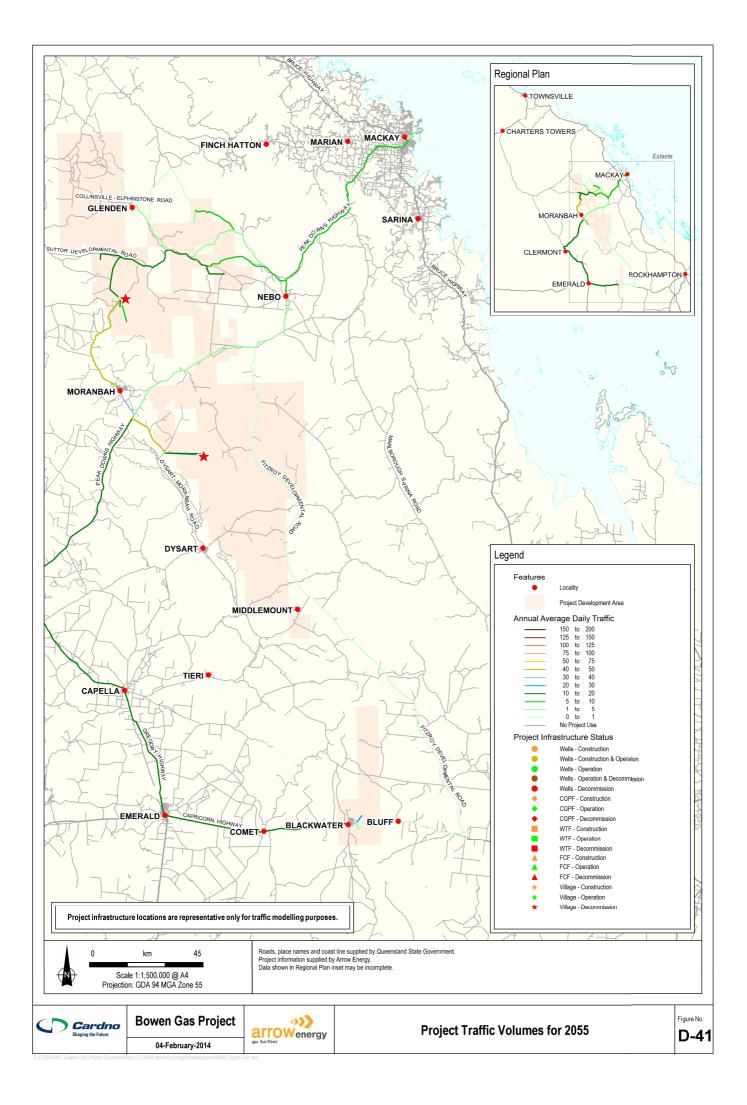


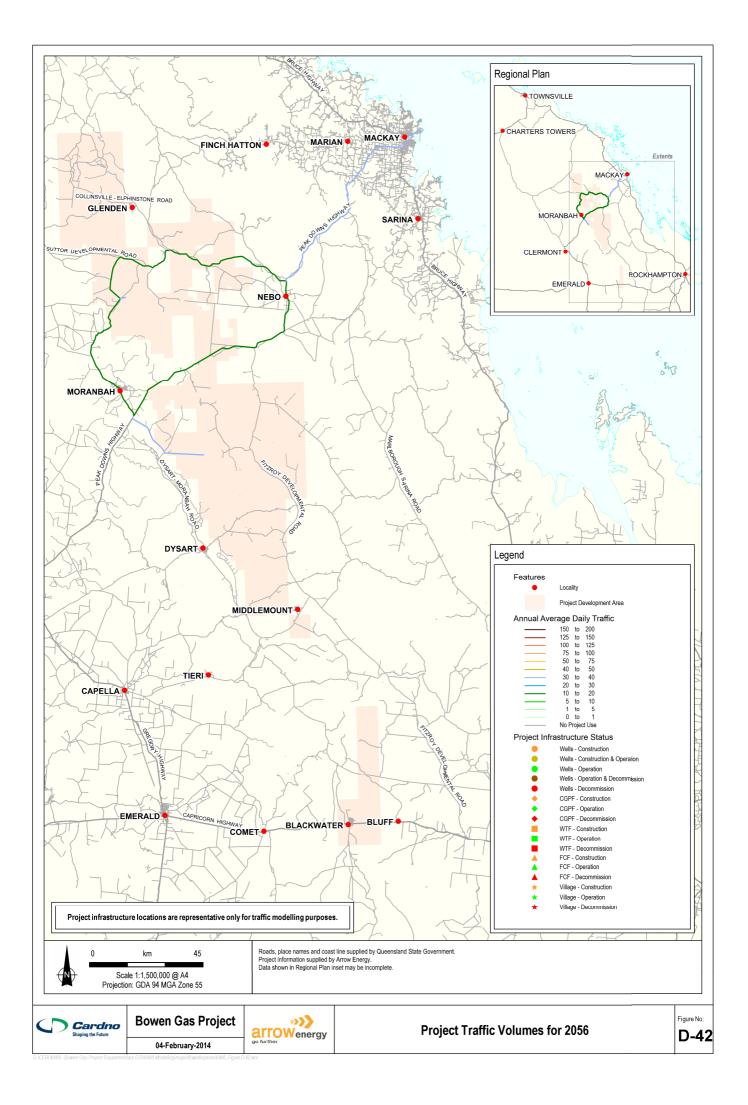












[V@&rÁj,æ\*^Á@æe/Áa\^}Á^~~Á4j,c^}cāj,}aa|\^Áa|aa)\]

Bowen Gas Project SREIS

# APPENDIX E Literature Review



# E.1 Road Cross-section Thresholds

# E.1.1 Sealed Road Design Guidance

Table E-1 summarises the road dimensions recommended by Austroads in the *Rural Road Design Manual* for undivided sealed roads based upon design Annual Average Daily Traffic (AADT) volumes.

Design AADT Volume (vpd)	No. of Lanes	Road Seal Width	Shoulder Seal Width	Total Shoulder Width
1 – 150	1	3.5m	0.5m	2.0m
150 – 500	2	6.0m	0.5m	1.5m
500 – 1,000	2	6.0m (minimum) 7.0m (desirable)	0.5m	1.5m
1,000 – 3,000	2	7.0m	1.0m	2.0m
3,000+	2	7.0m	1.5m	2.5m

Table E-1 Sealed Road Design Thresholds

Source: Austroads Rural Road Design Manual

# E.1.2 Unsealed Road Design Guidance

TMR's *Road Planning and Design Manual* (elements of which are reproduced in the Austroads *Guide to Road Design* series) states that the theoretical capacity of an unsealed gravel surface road is approximately 50% of that of a comparative sealed road (similar carriageway cross-section, etc). Further, the TMR's manual states that the theoretical capacity of a natural earth surfaced road is approximately 40% of that of a comparative sealed road. These theoretical capacity reduction factors however, do not account for environmental considerations such as dust nuisance and safety. It is these amenity factors, as opposed to capacity constraints, which typically prompt a road authority to seal a road.

The Unsealed Roads Manual Guidelines to Good Practice prepared by ARRB Transport Research Ltd, which is referenced extensively in the Road Planning and Design Manual, is considered to provide best practise guidance for the design of Australian unsealed roads. The manual states that typically it is difficult to justify sealing a road carrying less than 100vpd and that sealing is usually justified when traffic volumes exceed 250vpd. The guide states that between these threshold vehicle volumes, an economic assessment of the benefit of sealing a road is usually warranted.

Table E-2 summarises the adopted threshold volumes for unsealed roads.

## Table E-2 Unsealed Road Design Thresholds

	AADT (vpd)	
<100	100-250	>250
Unsealed appropriate	Economic benefit assessment of sealing warranted	Sealing typically warranted

Source: ARRB Unsealed Roads Manual Guidelines to Good Practice

# E.2 Intersection Thresholds

## E.2.1 Intersection Performance Guidance

The performance of an intersection is typically analysed using SIDRA Intersection 6 (SIDRA) for assessments conducted in Queensland. SIDRA is an industry recognised analysis tool that estimates the capacity and performance of intersections based on input parameters, including geometry and traffic volumes, and provides estimates of an intersection's Degree of Saturation (DOS), queues and delays. Simplistically, DOS is a measure of the proportion of traffic entering an intersection relative to the intersection's capacity.

Table E-3 provides the TMR defined DOS thresholds for intersections.

## Table E-3 TMR Intersection Performance Thresholds

Level of Service Description	DOS Threshold
Signalised intersections	less than or equal to 0.90
Roundabouts	less than or equal to 0.85
Priority controlled intersections	less than or equal to 0.80

Source: TMR Guidelines for Assessment of Road Impacts of Development

The guideline notes that a DOS exceeding the values indicated in Table E-1 indicates that an intersection is nearing its practical capacity and upgrade works may be required. Above these threshold values, users of the intersection are likely to experience rapidly increasing delays and queuing.

Importantly, it is noted that DOS is not the only performance indicator and that other measures such as critical delay should also be considered when assessing the performance of an intersection. Other authorities such as the New South Wales (NSW) Roads and Maritime Services (RMS) recommend the use of the critical movement delay for assessing the performance of priority-controlled intersections.

The RMS *Guide to Traffic Generating Developments* states that the average delay statistic for the critical movement provides a better indication of intersection performance and safety for priority-controlled intersections than DOS. A summary of the delay thresholds recommended by the RMS is provided in Table E-4. Although these thresholds are not documented within Queensland guidelines, they are still considered to provide another informative performance indicator and were therefore considered for the SREIS RIA.

## Table E-4 RMS Intersections Performance Thresholds

LOS	Level of Service Description	Critical Delay per Vehicle (sec/veh)
А	Good operation	less than 14 sec
В	Acceptable delays and spare capacity	15 to 28 sec
С	Satisfactory	29 to 42 sec
D	Near capacity	43 to 56 sec
E	At capacity, requires other control mode	57 to 70 sec

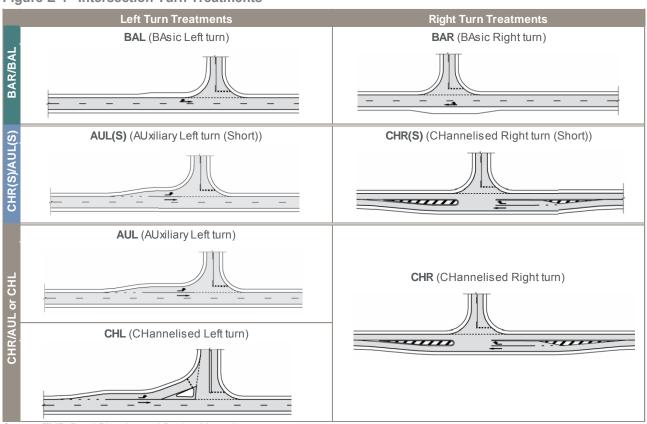
Source: RMS Guide to Traffic Generating Developments

## E.2.2 Intersection Turn Treatment Guidance

While DOS and critical delay measurements provide an indication on the operational performance of an intersection, the Austroads turn warrants for turn treatments offers an indication of which turn treatments will likely provide an appropriate level of safety. There are generally three types of turn treatments available at intersections, including:

- > Basic turn treatment
- > Auxiliary turn treatment
- > Channelised turn treatment.

The available left and right turn treatments are illustrated on Figure E-1.



### Figure E-1 Intersection Turn Treatments

The Austroads turn warrants provide guidance on where deceleration lanes and turning lanes should be used based on traffic volumes. The warrants were developed by Arndt, Troutbeck, Handley & Slattery (2006) and were produced by identifying the location at which the benefits of providing a higher-level treatment (the reduction in estimated accident costs) are equal to the additional construction costs associated with the treatment. The benefits and costs of a higher-level treatment were compared to the base case (minimum turn treatments) to develop the curves demonstrated on Figures E-2 and E-3. The turn treatment acronyms (i.e. BAL, BAR etc.) and colours in the Figures E-2 and E-3 directly relate to the turn treatments illustrated on Figure E-1 above.

Source: TMR Road Planning and Design Manual

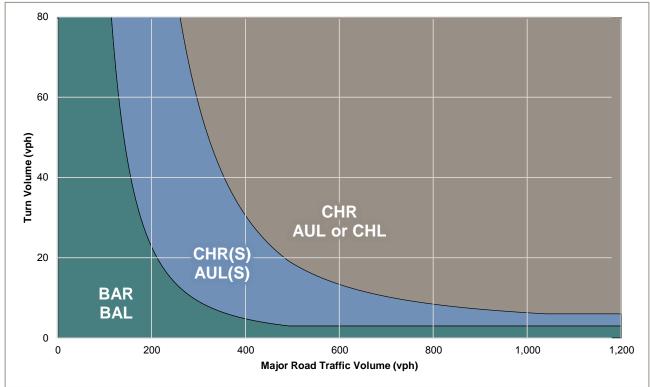
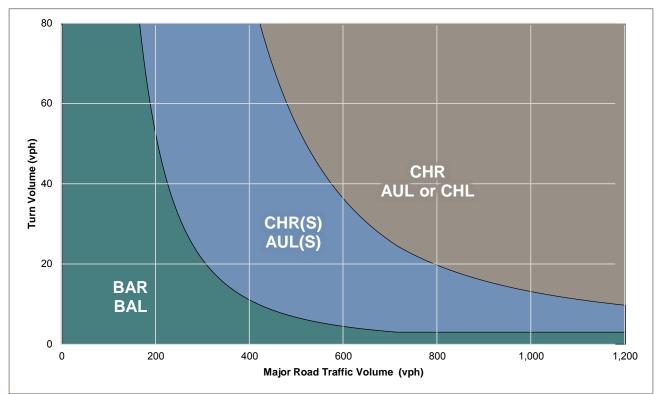


Figure E-2 Turn Warrants for Higher Speed Rural Roads (≥ 100km/h)

Source: TMR Road Planning and Design Manual





Source: TMR Road Planning and Design Manual

# E.2.3 Intersection Sight Distance

Sight distance requirements are outlined in Austroads *Guide to Road Design Part 4A: Unsignalised Intersections* which require three types of sight distance to be provided at intersections:

- > Approach Sight Distance (ASD): is the minimum sight distance which must be available on the minor road approach to ensure that drivers are aware of the presence of an intersection. Is also desirable on major road approaches so that drivers can see the pavement and markings within the intersection
- > Safe Intersection Sight Distance (SISD): provides sufficient distance for a driver of a vehicle on the major road to observe a vehicle on a minor road approach moving into a collision situation
- Minimum Gap Sight Distance (MGSD): relates to the distances corresponding to the critical acceptance gap that drivers are prepared to accept, for both turning out from the minor road, and turning in from the major road.

# E.3 School Bus Routes

The TMR *Guide for the Road Safety Management of Rural School Bus Routes and Bus Stops* identifies that it is difficult to define specific quantitative thresholds for the provision of bus facilities and that discretion and engineering judgement should be exercised. It recognises that many factors influence the choice of treatment in a given situation. Further, the guideline recognises that due to the transient nature of school bus stops in rural areas, the provision of formalised school bus stops is typically not warranted.

The following strategic planning guidance is provided by the guideline to assist in reducing the potential for conflict between project traffic, school bus vehicles and students:

- > School bus routes should be suitable for bus performance under all weather conditions.
- > School bus routes should only be signed where, for safety reasons, it is necessary to warn motorists of the possible presence of the school bus or students on the road.
- > School bus stops and their activities should be adequately visible in all relevant lighting and weather conditions.

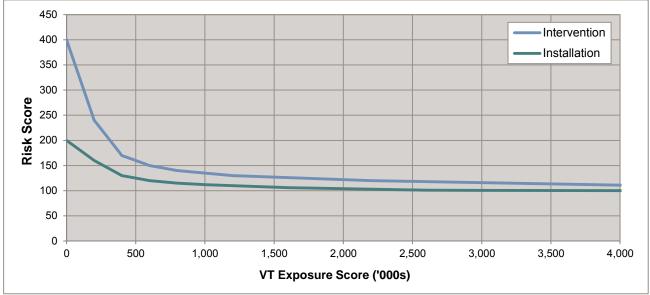
# E.4 Rail Crossings

The Australian Level Crossing Assessment Model (ALCAM) is used to produce a Risk Score for level crossings based on the physical characteristics of a level crossing and the existing warning and control devices. It is primarily a tool for rating level crossing safety in a comparative manner.

To compare the Risk Scores for a range of crossings, a reference score is used that can provide an indicative assessment of the risk relative to the consequence of a collision. Two reference scores are used: Installation Limit Score and the Intervention Limit Score. It is noted that these scores are not used to determine whether or not a crossing is 'safe' but rather how the Risk Score compares with the level of risk that may be acceptable at other crossings with a similar traffic and road environment profile.

The Installation Limit Score indicates a level below which the level crossing risk is likely to be within acceptable limits. The Intervention Limit Score indicates a level above which there is likely to be safety hazards that require priority attention to mitigate the level of risk.

The Installation and Intervention Limit Score Thresholds have been reproduced from the *Australian Level Crossing Assessment: Model Assessment Handbook* (2007) on Figure E-4.



### Figure E-4 Installation and Intervention Limit Score Thresholds

Source: Australian Level Crossing Assessment Model: Crossing Assessment Handbook

The VT Exposure Score identified on Figure E-4 is calculated based on the traffic level (average road and rail vehicles per day) and is then modified by an Environmental Factor (or Consequence Multiplier) which is related to the severity of the consequence if an incident was to occur. The VT exposure score is therefore calculated by multiplying the road vehicles per day by the rail vehicles per day and then multiplying by the Environmental Factor.

[V@&rÁj,æ\*^Á@æe/Áa\^}Á^~~Á4j,c^}cāj,}aa|\^Áa|aa)\]

# Bowen Gas Project SREIS

# APPENDIX F Pavement Impact Assessment



#### ASSESSMENT INPUTS

Roughness Increase	3 counts/year
Terminal Roughness	120 counts
Inflation Rate	4.39% p.a. (compou

Inflation Rate	4.39% p.a. (compound)
Discount Rate	6.00% p.a. (compound)
Heavy Vehicle Growth Rate	3.00% p.a. (linear)

#### AVERAGE ESAs

reminal Roughness	120 Counts	
Inflation Rate Discount Rate Heavy Vehicle Growth Rate	4.39% p.a. (compound) 6.00% p.a. (compound) 3.00% p.a. (linear)	
AVERAGE ESAs		
<ul> <li>2C: 2-Axle Trucks and Buses</li> <li>2C: 3-Axle Trucks and Buses</li> <li>2E: 4-Axle Trucks</li> <li>2F: 3-Axle Articulated Trucks</li> <li>2G: 4-Axle Articulated Trucks</li> <li>2H: 5-Axle Articulated Trucks</li> <li>2I: 6-Axle Articulated Trucks</li> <li>2J: B-Double</li> <li>2K: Double Road Trains</li> <li>2L: Triple Road Trains</li> </ul>	0.8 ESAs 1.5 ESAs 1.9 ESAs 1.8 ESAs 1.8 ESAs 2.3 ESAs 2.7 ESAs 3.0 ESAs 3.8 ESAs	SAMPLE road sections) SAMPLE road sections
Establishment of a New Paveme - Stage 1 and 2 Analysis (AP-R3		CAMPLE road
		Sesse
		393 25
	54 05 1	
	)~	

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm 1.Global Inputs 8/01/2014

#### Project Loadings Equivalent Standard Axles (ESAs) per Year

		Sectior	n Details																										
Cardn o ID#	TMR ROAD	Chainage Start	Chainage End																										2039
1	196	0	0.53	1	3	22	70	333	98	130	143	175	98	127	137	76	73	146	83	70	89	44	35	22	3	10	10	3	6
2	196	0	0.53	3	18	126	396	1,889	558	738	810	990	558	720	774	432	414	828	468	396	504	252	198	126	18	54	54	18	36
3	196 196	0.53	0.875	1 3	3 18	22 126	70 396	333	98 558	130 738	143 810	175 990	98 558	127 720	137 774	76 432	73 414	146 828	83 468	70 396	89 504	44 252	35 198	22 126	3	10	10 54	3 18	6 36
5	196	0.875	0.95	1	36	162	846	1,458	900	576	648	648	612	576	342	288	450	522	288	144	144	54	72	18	36	0	0	0	0
6	196	0.875	0.95	3	6	29	149	257	159	102	114	114	108	102	60	51	79	92	51	25	25	10	13	3	6	0	0	0	0
7	196 196	0.95	1.329 1.329	1 3	36	162 29	846 149	1,458 257	900 159	576 102	648 114	648 114	612 108	576 102	342 60	288	450 79	522 92	288 51	144 25	144 25	54 10	72	18	36	0	0	0	0
9	196	1.329	1.58	1	36	162	846	1,458	900	576	648	648	612	576	342	288	450	522	288	144	144	54	72	18	36	0	0	0	0
10		1.329	1.58	3	6	29	149	257	159	102	114	114	108	102	60	51	79	92	51	25	25	10	13	3	6	0	0	0	0
11 12	196 196	1.58 1.58	3.226 3.226	1	36 6	162 29	846 149	1,458 257	900 159	576 102	648 114	648 114	612 108	576 102	342 60	288	450 79	522 92	288 51	144 25	144 25	54 10	72 13	18	36 6	0	0	0	0
13		3.226	4.03	1	36	162	846	1,458	900	576	648	648	612	576	342	288	450	522	288	144	144	54	72	18	36	0	0	0	0
14		3.226	4.03	3	6	29	149	257	159	102	114	114	108	102	60	51	79	92	51	25	25	10	13	3	6	0	0	0	0
15 16	196 196	4.031	12.67 12.67	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	196	12.67	13.86	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	196	12.67	13.86	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	196	13.86	20.71	1 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	196 196	13.86 20.71	20.71 24.89	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	196	20.71	24.89	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	196	24.89	28.77	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
24 25	196 196	24.89 28.77	28.77 30.357	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
26	196	28.77	30.357	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	196	30.357	33.944	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
28 29	196 196	30.357 33.944	33.944 35.56	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	196	33.944	35.56	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
31	469	0	0.065	1	0	0	0	0	0	0	0	0	0	156	446	3,777	3,021	4,940	3,906	1,507	2,617	2,274	1,829	1,113	121	522	491	124	332
32 33	469 469	0.065	0.065	3	0	0	0	0	0	0	0	0	0	1,211 0	3,470 0	29,391 0	23,470	38,425 0	30,369 0	11,744 0	20,385	17,717 0	14,248	8,668 0	939	4,069	3,824 0	966	2,586 0
34	469	0.065	1.119	3	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	469	1.119	6.724	1	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 37	469 469	1.119 6.724	6.724 9.089	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	469	6.724	9.089	3	0	0	0	0	0	0	0	0	0	0	Ő	Ö	0	0	0	0	0	0	0	0	0	0	0	0	0
39	469	9.089	10.984	1	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	469 469	9.089	10.984 15.17	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	469	10.984	15.17	3	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	469	15.17	17.175	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 45	469 469	15.17	17.175 20.465	3	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	469	17.175	20.465	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	469	20.465	21.34	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 49	469 469	20.465	21.34 27.18	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	469	21.34	27.18	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	469	27.18	40.68	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52 53	469 469	27.18 40.68	40.68 48.39	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	469	40.68	48.39	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	469	48.39	49.59	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56 57	469 469	48.39 49.59	49.59 59.16	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	469	49.59	59.16	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	469	59.16	77.17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	469	59.16	77.17	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 62	469 469	77.17	89.03 89.03	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	469	89.03	89.57	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	469	89.03	89.57	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				U																									

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm 3.Dev\_Loadings 8/01/2014

#### Project Loadings Equivalent Standard Axles (ESAs) per Ye

Equ	valent S	anuaru A		(s) per t	e																	
		Section	n Details I					1				1										
Card o ID#		Chainage	Chainage																		2056	
0 ID#	ROAD			Directior	2040																2056	
1	196	0	0.53	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	196	0	0.53	3	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	196	0.53	0.875	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	196	0.53	0.875	3	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	196 196	0.875	0.95	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	
7	196	0.95	1.329	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8		0.95	1.329	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	196	1.329	1.58	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11		1.58	3.226	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12		1.58	3.226	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13		3.226	4.03	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14 15		4.031	4.03	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	196	4.031	12.67	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17		12.67	13.86	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18		12.67 13.86	13.86 20.71	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		_
20	196	13.86	20.71	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ŏ	ons)
21	196	20.71	24.89	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22	196 196	20.71 24.89	24.89 28.77	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23	196	24.89	28.77	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	196	28.77	30.357	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	196	28.77	30.357	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27 28	196 196	30.357 30.357	33.944 33.944	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29	196	33.944	35.56	1	0	0	0	0	0	0	0	0	0	Ő	Ő	0	0	0	0	0	0	
30	196	33.944	35.56	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31	469	0	0.065	1	194	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33	469	0.065	1.119	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34	469	0.065	1.119	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35	469	1.119	6.724	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36	469	1.119 6.724	6.724 9.089	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
38	469	6.724	9.089	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
39	469	9.089	10.984	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
40	469 469	9.089	10.984 15.17	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	
42	469	10.984	15.17	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
43	469	15.17	17.175	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
44	469	15.17 17.175	17.175 20.465	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45	469	17.175	20.465	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
47	469	20.465	21.34	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
48	469 469	20.465 21.34	21.34 27.18	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
50	469	21.34	27.18	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
51	469	27.18	40.68	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
52 53	469 469	27.18 40.68	40.68 48.39	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
54	469	40.68	48.39	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
55	469	48.39	49.59	1	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
56	469	48.39	49.59	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
57 58	469	49.59 49.59	59.16 59.16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
59	469	59.16	77.17	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
60	469	59.16	77.17	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
61 62	469 469	77.17	89.03 89.03	1 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
63	469	89.03	89.57	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
64		89.03	89.57	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

# Bowen Basin SREIS

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm 3.Dev\_Loadings 8/01/2014

#### Section Properties of Assessed Road Network Constructed and Expenditure Properties

		Sectio	n Details				Phys	ical Attributes		
Cardn										
o ID#	TMR ROAD	Chainage Start	Chainage End					Section Width	Roughness Survey Year	Average Roughness
	ROAD								ourvey rear	
1	196	0.000 km	0.530 km	1		0.530 km	11.11 m	5.55 m	2013	106.81
2	196	0.000 km		3		0.530 km	11.11 m	5.55 m	2013	106.81
3	196 196	0.530 km 0.530 km		3	-	0.345 km 0.345 km	9.27 m 9.27 m	4.63 m 4.63 m	2013 2013	138.67
5	196	0.875 km	0.950 km	1	1	0.075 km	8.38 m	4.19 m	2013	126.67
6	196	0.875 km		3		0.075 km	8.38 m	4.19 m	2013	126.67
7	196 196	0.950 km 0.950 km		1		0.379 km 0.379 km	12.91 m 12.91 m	6.46 m	2013 2013	78.02
9	196	1.329 km	1.580 km	1	1	0.251 km	13.19 m	6.60 m	2013	105.26
10	196	1.329 km		3		0.251 km	13.19 m	6.60 m	2013	105.26
11 12	196 196	1.580 km	3.226 km 3.226 km	1 3		1.646 km 1.646 km	17.06 m 17.06 m	8.53 m 8.53 m	2013 2013	94.64
13	196	3.226 km	4.030 km	1		0.804 km	11.52 m	5.76 m	2013	85.11
14	196		4.030 km	3		0.804 km	11.52 m	5.76 m	2013	85.11
15 16	196 196		12.670 km			8.639 km 8.639 km	9.49 m 9.49 m	4.75 m 4.75 m	2013 2013	67.43
17	196		13.860 km			1.190 km	9.87 m	4.94 m	2013	78.21
18	196	12.670 km	13.860 km	3		1.190 km	9.87 m	4.94 m	2013	78.21
19 20	196 196		20.710 km 20.710 km			6.850 km 6.850 km	11.34 m 11.34 m	5.67 m 5.67 m	2013 2013	72.19
20	196	20.710 km	24.890 km	1		4.180 km	12.39 m	6.19 m	2013	68.09
22	196	20.710 km	24.890 km	3		4.180 km	12.39 m	6.19 m	2013	68.09
23 24	196 196		28.770 km 28.770 km	1		3.880 km 3.880 km	13.84 m 13.84 m	6.92 m 6.92 m	2013 2013	63.97
24	196		30.357 km			1.587 km	12.27 m	6.13 m	2013	68.71
26	196		30.357 km			1.587 km	12.27 m	6.13 m	2013	68.71
27 28	196 196		33.944 km 33.944 km			3.587 km 3.587 km	15.09 m 15.09 m	7.55 m 7.55 m	2013	62.56
20	196		35.560 km		1	1.616 km	12.47 m	6.24 m	2013	81.41
30	196	33.944 km	35.560 km			1.616 km	12.47 m	6.24 m	2013	81.41
31 32	469 469	0.000 km	0.065 km 0.065 km	1		0.065 km 0.065 km	10.00 m 10.00 m	5.00 m 5.00 m	2012 2012	166.00
32	469	0.000 km		1	1	1.054 km	9.08 m	5.00 m 4.54 m	2012	110.85
34	469	0.065 km	1.119 km	3		1.054 km	9.08 m	4.54 m	2012	110.85
35 36	469 469	1.119 km		1 3		5.605 km	6.74 m 6.74 m	3.37 m	2012 2012	88.51
30	469	1.119 km 6.724	6.724 km 9.089	1	1	5.605 km 2.365 km	8.49 m	3.37 m 4.24 m	2012	49.61
38	469	6.724	9.089	3		2.365 km	8.49 m	4.24 m	2012	49.61
39 40	469 469	9.089 9.089	10.984	1		1.895 km 1.895 km	8.32 m 8.32 m	4.16 m 4.16 m	2012 2012	53.16
40	469	9.089	10.984	3	-	4.1895 km	8.32 m 8.10 m	4.16 m 4.05 m	2012 2012	72.33
42	469	10.984	15.170	3	1	4.186 km	8.10 m	4.05 m	2012	72.33
43	469 469	15.170	17.175 17.175	1		2.005 km	8.60 m	4.30 m	2012	84.51
44	469	15.170 17.175	20.465	3	-	2.005 km 3.290 km	8.60 m 8.43 m	4.30 m 4.22 m	2012 2012	82.01
46	469	17.175	20.465	3	1	3.290 km	8.43 m	4.22 m	2012	82.01
47	469 469	20.465	21.340	1		0.875 km	6.70 m	3.35 m	2012	106.81 138.67 138.67 126.67 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 78.02 77.02 78.02 77.02 78.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77.02 77
48	469	20.465 21.340	21.340 27.180	3	-	0.875 km 5.840 km	6.70 m 8.60 m	3.35 m 4.30 m	2012 2012	118.99 73.65
50	469	21.340	27.180	3		5.840 km	8.60 m	4.30 m	2012	13.05
51	469	27.180	40.680	1		13.500 km	7.21 m	3.61 m	2012	76.84
52 53	469 469	27.180 40.680	40.680 48.390	3	-	13.500 km 7.710 km	7.21 m 6.71 m	3.61 m 3.35 m	2012 2012	76.84 76.13
54	469	40.680	48.390	3		7.710 km	6.71 m	3.35 m	2012	76.13
55	469	48.390	49.590	1		1.200 km	6.61 m	3.31 m	2012	96.65
56 57	469 469	48.390 49.590	49.590 59.160	3		1.200 km 9.570 km	6.61 m 6.61 m	3.31 m 3.31 m	2012 2012	96.65 79.44
58	469	49.590	59.160	3		9.570 km	6.61 m	3.31 m	2012	79.44
59	469	59.160	77.170	1		18.010 km	6.61 m	3.30 m	2012	68.90
60 61	469 469	59.160 77.170	77.170 89.030	3		18.010 km 11.860 km	6.61 m 6.63 m	3.30 m 3.32 m	2012 2012	68.90 77.94
62	469	77.170	89.030	3		11.860 km	6.63 m	3.32 m	2012	77.94
63	469	89.030	89.570	1		0.540 km	7.64 m	3.82 m	2012	71.94
64	469	89.030	89.570	3		0.540 km	7.64 m	3.82 m	2012	71.94

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm 4.SP\_Constructed 8/01/2014

#### Section Properties of Assessed Road Network Traffic Volumes and Scoping

Section Details		Traffic Volumes	Scoping Tests	
Cardn	AADT	Survey	Peak %	
o ID# TMR Chainage Chainage Direction	Survey AADT HV		Appual Impact on	
ROAD Start End Birection		ESAs Growth	ESAs ESAs	
1 196 0.000 km 0.530 km 1	2012 8,113 vpd 11.33	3% 919 vpd 1.7 565,349 3%		
2 196 0.000 km 0.530 km 3	2012 11,552 vpd 11.35	5% 1,311 vpd 1.7 805,263 3%	1,889 0%	
3         196         0.530 km         0.875 km         1           4         196         0.530 km         0.875 km         3	2012 18,284 vpd 5.38 2012 19,933 vpd 5.54		333 0% 1.889 0%	
5 196 0.875 km 0.950 km 1	2012 18,353 Vpd 5.34 2012 18,284 vpd 5.38		1,458 0%	
6 196 0.875 km 0.950 km 3	2012 19,933 vpd 5.54		257 0%	
7         196         0.950 km         1.329 km         1           8         196         0.950 km         1.329 km         3	2012 18,284 vpd 5.38 2012 19,933 vpd 5.54		1,458 0% 257 0%	
9 196 1.329 km 1.580 km 1	2012 18,284 vpd 5.38	1% 984 vpd 1.3 467,748 3%	1,458 0%	
10 196 1.329 km 1.580 km 3 11 196 1.580 km 3.226 km 1	2012 19,933 vpd 5.54 2012 10,832 vpd 3.58		257 0% 1.458 1%	
12 196 1.580 km 3.226 km 3	2012 10,832 vpd 3.58 2012 11,166 vpd 3.45		$\frac{1}{257}$ $\frac{1}{06}$	
13 196 3.226 km 4.030 km 1	2012 9,292 vpd 4.41	% 410 vpd 1.0 154,067 3%	1,458 1%	7
14         196         3.226 km         4.030 km         3           15         196         4.031 km         12.670 km         1	2012 8,141 vpd 3.82 2012 5,462 vpd 7.04		257 0% 0 0%	
16 196 4.031 km 12.670 km 3	2012 5,492 vpd 7.04 2012 5,491 vpd 6.73			
17 196 12.670 km 13.860 km 1	2012 5,462 vpd 7.04	% 385 vpd 1.2 168,083 3%	0 0%	
18         196         12.670 km         13.860 km         3           19         196         13.860 km         20.710 km         1	2012 5,491 vpd 6.73 2012 5,462 vpd 7.04			
20 196 13.860 km 20.710 km 3	2012 5,491 vpd 6.73	1% 370 vpd 1.2 162,462 3%	0 0%	
21 196 20.710 km 24.890 km 1	2012 5,462 vpd 7.04			
22         196         20.710 km         24.890 km         3           23         196         24.890 km         28.770 km         1	2012 5,491 vpd 6.73 2012 5,462 vpd 7.04		1.458       0%         257       0%         257       0%         257       0%         257       0%         1.458       0%         257       0%         1.458       0%         257       0%         1.458       0%         257       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0%         0       0% <t< td=""><td></td></t<>	
24 196 24.890 km 28.770 km 3	2012 5,491 vpd 6.73	1% 370 vpd 1.2 162,462 3%	<u>0</u> 0%	
25 196 28.770 km 30.357 km 1 26 196 28.770 km 30.357 km 3	2012 5,462 vpd 7.04 2012 5,491 vpd 6.73			
27 196 30.357 km 33.944 km 1	2012 5,491 Vpd 0.73 2012 5,357 vpd 7.59			
28 196 30.357 km 33.944 km 3	2012 5,298 vpd 7.20	0% 381 vpd 1.2 162,498 3%	0 0%	
29 196 33.944 km 35.560 km 1 30 196 33.944 km 35.560 km 3	2012 5,205 vpd 6.52 2012 5,729 vpd 6.03			
31 469 0.000 km 0.065 km 1	2012 2,523 vpd 16.38		4,940 2%	
32 469 0.000 km 0.065 km 3	2012 2,412 vpd 12.64	4% 305 vpd 1.5 170,857 3%	38,425 22%	
33         469         0.065 km         1.119 km         1           34         469         0.065 km         1.119 km         3	2012 2,523 vpd 16.38 2012 2,412 vpd 12.64		0 0%	
35 469 1.119 km 6.724 km 1	2012 1,511 vpd 12.30	6% 187 vpd 1.9 131,254 3%	0 0%	
36 469 1.119 km 6.724 km 3	2012 1,436 vpd 14.31			
37         469         6.724 km         9.089 km         1           38         469         6.724 km         9.089 km         3	2012 1,511 vpd 12.36 2012 1,436 vpd 14.31			
39 469 9.089 km 10.984 km 1	2012 1.511 vpd 12.30	6% 187 vpd 1.9 131,254 3%	0 0%	
40         469         9.089 km         10.984 km         3           41         469         10.984 km         15.170 km         1	2012 1,436 vpd 14.31 2012 1,511 vpd 12.36			
41 409 10.984 km 15.170 km 1 42 469 10.984 km 15.170 km 3	2012 1,311 vpd 12.30 2012 1,436 vpd 14.31			
43 469 15.170 km 17.175 km 1	2012 1,511 vpd 12.30	6% 187 vpd 1.9 131,254 3%	0 0%	
44         469         15.170 km         17.175 km         3           45         469         17.175 km         20.465 km         1	2012 1,436 vpd 14.31 2012 1,511 vpd 12.36		0 0% 0 0%	
46 469 17.175 km 20.465 km 3	2012 1,436 vpd 14.31	1% 205 vpd 1.8 134,758 3%	0 0%	
47 469 20.465 km 21.340 km 1	2012 1,511 vpd 12.36	6% 187 vpd 1.9 131,254 3%	0 0%	
48         469         20.465 km         21.340 km         3           49         469         21.340 km         27.180 km         1	2012 1,436 vpd 14.31 2012 219 vpd 11.53		0 0% 0 0%	
50 469 21.340 km 27.180 km 3	2012 217 vpd 21.52	2% 47 vpd 1.4 23.543 3%	0 0%	
51         469         27.180 km         40.680 km         1           52         469         27.180 km         40.680 km         3	2012 35 vpd 21.92 2012 40 vpd 26.65		0 0% 0 0%	
52 469 27.180 km 40.080 km 3 53 469 40.680 km 48.390 km 1	2012 40 vpd 26.65 2012 35 vpd 21.92		$\frac{0}{0}$ $\frac{0}{0}$	
54 469 40.680 km 48.390 km 3	2012 40 vpd 26.65	5% 11 vpd 2.0 8,067 3%	0 0%	
55         469         48.390 km         49.590 km         1           56         469         48.390 km         49.590 km         3	2012 35 vpd 21.92 2012 40 vpd 26.65		0 0% 0 0%	
57 469 49.590 km 59.160 km 1	2012 40 vpd 20.00 2012 35 vpd 21.92			
58 469 49.590 km 59.160 km 3	2012 40 vpd 26.65	5% 11 vpd 2.0 8,067 3%	0 0%	
59 469 59.160 km 77.170 km 1 60 469 59.160 km 77.170 km 3	2012 35 vpd 21.92 2012 40 vpd 26.65		0 0% 0 0%	
61 469 77.170 km 89.030 km 1	2012 40 Vpd 20.00 2012 35 vpd 21.92			
62 469 77.170 km 89.030 km 3	2012 40 vpd 26.65	5% 11 vpd 2.0 8,067 3%	0 0%	
63         469         89.030 km         89.570 km         1           64         469         89.030 km         89.570 km         3	2012 35 vpd 21.92 2012 40 vpd 26.65		0 0% 0 0%	

# Bowen Basin SREIS

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm 5.SP\_Operating 8/01/2014

#### **Rehabilitation Impacts**

| Start         El           0.000 km         0.53           0.000 km         0.53           0.530 km         0.87           0.530 km         0.87           0.875 km         0.95           0.875 km         0.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 880 km         1           826 km         3           826 km         1           326 km         1           326 km         1           330 km         1           330 km         1           330 km         1           670 km         3           660 km         1           660 km         1           710 km         3           980 km         3           357 km         3           357 km         3           357 km         3           364 km         1           360 km         3           560 km         1           560 km         1           3660 km         1                                                                                                                                                                                                                                     | Surveyed<br>Roughness<br>106.81<br>106.81<br>138.67<br>138.67<br>126.67<br>78.02<br>78.02<br>105.26<br>94.64<br>94.64<br>94.64<br>94.64<br>94.64<br>94.64<br>94.64<br>95.11<br>85.11<br>85.11<br>85.11<br>87.43<br>67.43<br>78.21<br>78.21<br>78.21<br>97.219<br>68.09<br>63.97<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>78.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.02<br>77.0 | Roughness<br>Year<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Deterioration<br>Rate<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Base Year<br>Roughness<br>112.8<br>114.7<br>144.7<br>132.7<br>132.7<br>132.7<br>84.0<br>84.0<br>111.3<br>100.6<br>100.6<br>91.1<br>91.1<br>91.1<br>73.4<br>73.4<br>84.2<br>78.2<br>78.2<br>78.2<br>78.2<br>78.2<br>74.1<br>74.1<br>70.0<br>70.0<br>74.7<br>74.7<br>768.6<br>688.6<br>687.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Adopted<br>Terminal<br>Roughness<br>120.0<br>120.0<br>150.0<br>150.0<br>140.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120   | 2017.40<br>2016.78<br>2016.78<br>2017.44<br>2027.99<br>2026.99<br>2017.91<br>2021.45<br>2021.45<br>2021.45<br>2024.63<br>2024.63<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.94<br>2030.52<br>2026.94<br>2030.30<br>2030.30<br>2031.68<br>2030.10<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | Predicted<br>Breakpoint<br>2,170,292<br>3,091,289<br>1,455,324<br>1,455,324<br>1,455,324<br>2,079,262<br>6,7,816,750<br>8,919,574<br>2,082,442<br>2,376,242<br>1,370,818<br>1,380,200<br>2,043,429<br>1,600,952<br>3,372,459<br>3,007,638<br>2,792,992<br>2,699,589<br>3,080,272<br>3,677,514<br>3,550,665<br>4,049,349<br>3,013,551<br>3,651,558<br>4,049,349<br>3,013,551<br>3,651,558<br>4,049,349<br>3,013,551<br>3,651,558<br>4,049,349<br>3,013,551<br>3,651,558<br>4,049,349<br>3,013,551<br>4,051,558<br>4,049,349<br>3,013,551<br>4,051,558<br>4,049,349<br>3,013,551<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,055<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,051,558<br>4,055<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058<br>4,058 | Break Year<br>2017<br>2017<br>2016<br>2016<br>2017<br>2026<br>2026<br>2026<br>2026<br>2022<br>2024<br>2024<br>2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Rehab Date<br>2017.40<br>2017.39<br>2016.78<br>2016.78<br>2017.44<br>2026.99<br>2017.44<br>2026.99<br>2017.91<br>2021.45<br>2024.62<br>2024.62<br>2030.52<br>2026.93<br>2024.62<br>2030.52<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2027.44<br>2026.94<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2027.45<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2030.00<br>2031.68<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Bring<br>Forward<br>Period<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Bring<br>Forward?           No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | .0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | cti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0.000 km         0.53           0.530 km         0.87           0.530 km         0.87           0.875 km         0.95           0.875 km         0.95           0.875 km         0.95           0.875 km         0.95           1.329 km         1.88           1.329 km         1.88           1.329 km         1.58           1.328 km         4.03           2.26 km         4.03           2.26 km         4.03           2.26 km         4.03           2.670 km         1.3860 km           2.710 km         2.87           2.8770 km         3.93           2.8770 km         3.32           3.394 km         35           0.000 km         0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 330 km         3           375 km         1           375 km         1           375 km         3           560 km         1           329 km         3           329 km         3           380 km         3           360 km         3           328 km         1           326 km         3           330 km         1           330 km         1           330 km         1           670 km         3           670 km         1           670 km         1           710 km         3           3890 km         3           357 km         3           357 km         3           357 km         3           360 km         1           944 km         3           560 km         1           560 km         1                                                                                              | $\begin{array}{c} 106.81\\ 138.67\\ 138.67\\ 126.67\\ 126.67\\ 126.67\\ 126.67\\ 105.26\\ 94.64\\ 94.64\\ 85.11\\ 85.11\\ 85.11\\ 67.43\\ 78.21\\ 72.19\\ 72.19\\ 68.09\\ 68.09\\ 68.09\\ 63.97\\ 63.97\\ 63.97\\ 68.71\\ 62.56\\ 62.56\\ 81.41\\ 81.41\\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | $\begin{array}{c} 112.8\\ 114.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\
132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 13$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 120.0<br>120.0<br>150.0<br>150.0<br>140.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0 | 2017.40<br>2016.78<br>2016.78<br>2017.44<br>2027.99<br>2026.99<br>2017.91<br>2021.45<br>2021.45<br>2021.45<br>2024.63<br>2024.63<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.94<br>2030.52<br>2026.94<br>2030.30<br>2030.30<br>2031.68<br>2030.10<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                      | $\begin{array}{c} 3.091289\\ 1.455324\\ 1.660,647\\ 1.822,412\\ 2.079,526\\ 3.919,574\\ 2.082,422\\ 2.376,242\\ 2.376,242\\ 2.376,242\\ 2.376,242\\ 2.376,242\\ 2.376,242\\ 2.376,242\\ 2.376,242\\ 3.300,252\\ 3.372,459\\ 3.000,952\\ 3.372,459\\ 3.000,952\\ 3.372,459\\ 3.000,952\\ 3.372,459\\ 3.000,952\\ 3.373,249\\ 3.000,952\\ 3.373,249\\ 3.000,952\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.37$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2017<br>2016<br>2016<br>2017<br>2017<br>2026<br>2026<br>2017<br>2022<br>2021<br>2021<br>2021<br>2021<br>2021<br>2024<br>2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2017.39<br>2016.78<br>2016.78<br>2017.44<br>2027.44<br>2026.98<br>2017.91<br>2021.45<br>2021.45<br>2024.62<br>2030.52<br>2030.52<br>2030.52<br>2030.52<br>2030.52<br>2030.52<br>2030.52<br>2030.30<br>2028.94<br>2030.30<br>2031.68<br>2031.68<br>2031.68<br>2030.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.00<br>0.00<br>0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No<br>No<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | cti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | one                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0.000 km         0.53           0.530 km         0.87           0.530 km         0.87           0.875 km         0.95           0.875 km         0.95           0.875 km         0.95           0.875 km         0.95           1.329 km         1.88           1.329 km         1.88           1.329 km         1.58           1.328 km         4.03           2.26 km         4.03           2.26 km         4.03           2.26 km         4.03           2.670 km         1.3860 km           2.710 km         2.87           2.8770 km         3.93           2.8770 km         3.32           3.394 km         35           0.000 km         0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 330 km         3           375 km         1           375 km         1           375 km         3           560 km         1           329 km         3           329 km         3           380 km         3           360 km         3           328 km         1           326 km         3           330 km         1           330 km         1           330 km         1           670 km         3           670 km         1           670 km         1           710 km         3           3890 km         3           357 km         3           357 km         3           357 km         3           360 km         1           944 km         3           560 km         1           560 km         1                                                                                              | $\begin{array}{c} 106.81\\ 138.67\\ 138.67\\ 126.67\\ 126.67\\ 126.67\\ 126.67\\ 105.26\\ 94.64\\ 94.64\\ 85.11\\ 85.11\\ 85.11\\ 67.43\\ 78.21\\ 72.19\\ 72.19\\ 68.09\\ 68.09\\ 68.09\\ 63.97\\ 63.97\\ 63.97\\ 68.71\\ 62.56\\ 62.56\\ 81.41\\ 81.41\\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | $\begin{array}{c} 112.8\\ 114.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\
132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 13$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 120.0<br>150.0<br>150.0<br>140.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0 | 2017.40<br>2016.78<br>2016.78<br>2017.44<br>2027.99<br>2026.99<br>2017.91<br>2021.45<br>2021.45<br>2021.45<br>2024.63<br>2024.63<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.94<br>2030.52<br>2026.94<br>2030.30<br>2030.30<br>2031.68<br>2030.10<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                      | $\begin{array}{c} 3.091289\\ 1.455324\\ 1.660,647\\ 1.822,412\\ 2.079,526\\ 3.919,574\\ 2.082,422\\ 2.376,242\\ 2.376,242\\ 2.376,242\\ 2.376,242\\ 2.376,242\\ 2.376,242\\ 2.376,242\\ 2.376,242\\ 3.300,252\\ 3.372,459\\ 3.000,952\\ 3.372,459\\ 3.000,952\\ 3.372,459\\ 3.000,952\\ 3.372,459\\ 3.000,952\\ 3.373,249\\ 3.000,952\\ 3.373,249\\ 3.000,952\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.373,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.372,249\\ 3.37$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2017<br>2016<br>2016<br>2017<br>2017<br>2026<br>2026<br>2017<br>2022<br>2021<br>2021<br>2021<br>2021<br>2021<br>2024<br>2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2017.39<br>2016.78<br>2016.78<br>2017.44<br>2027.44<br>2026.98<br>2017.91<br>2021.45<br>2021.45<br>2024.62<br>2030.52<br>2030.52<br>2030.52<br>2030.52<br>2030.52<br>2030.52<br>2030.52<br>2030.30<br>2028.94<br>2030.30<br>2031.68<br>2031.68<br>2031.68<br>2030.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.00<br>0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No<br>No<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | cti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | one                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0.530 km         0.87           0.875 km         0.950           0.875 km         0.950           0.950 km         1.32           1.329 km         1.58           1.580 km         3.22           1.32 km         1.58           1.580 km         3.22           1.580 km         3.22           1.580 km         3.22           1.267 km         1.38           1.2670 km         1.3860 km           2.0710 km         24.890 km           2.0710 km         24.890 km           2.8770 km         3.337 km           3.357 km         3.394 km           3.3944 km         35.6           0.000 km         0.000 km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 375 km         3           550 km         1           550 km         1           550 km         1           529 km         3           229 km         3           580 km         3           580 km         3           226 km         1           226 km         1           330 km         1           570 km         1           570 km         1           710 km         1           710 km         3           357 km         3           357 km         3           357 km         3           364 km         3           364 km         1           3660 km         1           3660 km         3                                                                                                                                                                                                         | $\begin{array}{c} 138.67\\ 126.67\\ 126.67\\ 126.67\\ 126.67\\ 105.26\\ 94.64\\ 85.11\\ 85.11\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 67.$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\begin{array}{c} 144.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 132.7\\ 111.3\\ 100.6\\ 91.1\\ 131.3\\ 100.6\\ 91.1\\ 91.1\\ 314.7\\ 334.8\\ 84.2\\ 73.4\\ 84.2\\ 73.4\\ 84.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\
78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 150.0           140.0           140.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0           120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2016.78<br>2017.44<br>2026.99<br>2026.99<br>2017.91<br>2021.45<br>2021.45<br>2021.45<br>2024.63<br>2024.63<br>2030.52<br>2026.93<br>2028.94<br>2028.94<br>2028.94<br>2028.94<br>2028.94<br>2028.94<br>2028.94<br>2028.94<br>2030.30<br>2031.68<br>2030.10<br>2030.10<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | $\begin{array}{c} 1660647\\ 1822412\\ 2,079,526\\ 7,816,750\\ 8,919,574\\ 2,082,442\\ 2,376,242\\ 1,370,818\\ 1,390,020\\
2,043,429\\ 1,600,952\\ 3,372,459\\ 3,007,638\\ 2,043,429\\ 1,600,952\\ 3,372,459\\ 3,373,454\\ 3,373,454\\ 3,373,454\\ 3,373,514\\ 3,550,665\\ 4,049,349\\ 3,198,372\\ 3,673,514\\ 3,550,665\\ 4,049,349\\ 3,198,372\\ 4,264,556\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,264,956\\ 4,26$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2016<br>2017<br>2017<br>2026<br>2026<br>2017<br>2026<br>2017<br>2021<br>2021<br>2021<br>2024<br>2024<br>2024<br>2030<br>2030<br>2026<br>2028<br>2028<br>2028<br>2030<br>2030<br>2031<br>2031<br>2031                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2016.78<br>2017.44<br>2017.44<br>2026.98<br>2026.99<br>2017.91<br>2021.45<br>2024.62<br>2024.62<br>2030.52<br>2030.52<br>2030.52<br>2030.52<br>2030.52<br>2030.52<br>2030.52<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2027.94<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2030.30<br>2033.94<br>2033.30<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2033.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.94<br>2034.9 | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | cti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | one                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0.875 km 0.95<br>0.875 km 0.95<br>0.950 km 1.32<br>0.950 km 1.32<br>0.950 km 1.52<br>1.329 km 1.58<br>1.329 km 1.58<br>1.329 km 3.22<br>1.580 km 3.22<br>1.580 km 3.22<br>2.26 km 4.03<br>3.226 km 4.03<br>3.226 km 4.03<br>4.031 km 12.67<br>1.2670 km 13.86<br>1.3.660 km 20.7<br>20.710 km 24.88<br>20.710 km 24.88<br>20.710 km 24.88<br>20.710 km 24.88<br>20.710 km 24.88<br>20.710 km 33.94<br>3.357 km 33.94<br>3.3944 km 35.56<br>0.000 km 0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 560 km         1           320 km         3           320 km         3           320 km         3           320 km         3           380 km         1           320 km         1           320 km         1           330 km         1           330 km         1           670 km         3           660 km         3           710 km         3           380 km         1           860 km         3           770 km         3           357 km         3           364 km         3           364 km         3           560 km         3           560 km         1           560 km         1           560 km         1           560 km         1                                                                                                                                                     | $\begin{array}{c} 126.67\\ 126.67\\ 78.02\\ 78.02\\ 105.26\\ 94.64\\ 94.64\\ 85.11\\ 67.43\\ 67.43\\ 67.43\\ 67.43\\ 78.21\\ 72.19\\ 72.19\\ 68.09\\ 68.09\\ 68.09\\ 68.09\\ 68.971\\ 68.71\\ 62.56\\ 62.56\\ 81.41\\ 81.41\\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\begin{array}{c} 132.7\\ 32.7\\ 84.0\\ 84.0\\ 111.3\\ 111.3\\ 100.6\\ 100.6\\ 91.1\\ 91.1\\ 73.4\\ 84.2\\ 84.2\\ 78.2\\ 78.2\\ 78.2\\ 78.2\\ 74.1\\ 74.1\\ 74.1\\ 74.1\\ 74.1\\ 74.6\\ 86.6\\ 68.6\\ 68.6\\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 140.0<br>140.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0 | 2017.44<br>2017.44<br>2026.99<br>2026.99<br>2017.91<br>2021.45<br>2021.45<br>2024.63<br>2024.63<br>2024.63<br>2024.63<br>2024.63<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2028.94<br>2028.94<br>2028.94<br>2030.30<br>2031.68<br>2030.10<br>2030.10<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | $\begin{array}{c} 1.822.412\\ 2.079.526\\ 7.816.750\\ 8.919.574\\ 2.082.442\\ 2.376.242\\ 1.370.818\\ 1.390.020\\ 2.043.429\\ 1.600.952\\ 3.732.459\\ 3.607.638\\ 2.792.992\\ 2.699.569\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.308.929\\ 3.30$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2017<br>2017<br>2026<br>2026<br>2027<br>2021<br>2021<br>2021<br>2021<br>2021<br>2022<br>2026<br>2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2017.44<br>2017.44<br>2026.99<br>2026.99<br>2017.91<br>2021.45<br>2021.45<br>2024.60<br>2024.62<br>2030.52<br>2030.52<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2028.94<br>2030.30<br>2031.68<br>2031.68<br>2031.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | .0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | cti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | one                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0.875 km 0.95<br>0.950 km 1.32<br>0.950 km 1.32<br>1.329 km 1.58<br>1.329 km 1.58<br>1.580 km 3.22<br>3.226 km 4.03<br>4.031 km 12.6<br>1.2670 km 13.88<br>12.670 km 13.88<br>12.670 km 13.88<br>12.670 km 13.88<br>12.670 km 13.88<br>12.670 km 13.88<br>12.670 km 33.98<br>20.710 km 24.88<br>20.710 km 24.88<br>20.710 km 24.88<br>20.710 km 33.98<br>30.357 km 33.99<br>30.357 km 33.99 km 35.90 km 35. | 560 km         3           228 km         1           329 km         3           560 km         3           526 km         3           226 km         3           330 km         1           226 km         3           330 km         1           570 km         1           670 km         1           860 km         1           710 km         1           980 km         1           980 km         1           357 km         357 km           357 km         357 km           357 km         356 km           3660 km         1           560 km         1           366 km         1           366 km         1                                                                                                                                                                                           | $\begin{array}{c} 126.67\\ 78.02\\ 78.02\\ 105.26\\ 94.64\\ 85.11\\ 85.11\\ 67.43\\ 78.21\\ 78.21\\ 78.21\\ 78.21\\ 78.21\\ 78.21\\ 72.19\\ 72.19\\ 72.19\\ 68.09\\ 68.09\\ 63.97\\ 68.71\\ 68.56\\ 68.56\\ 81.41\\ 81.41\\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\begin{array}{c} 132.7\\ 84.0\\ 84.0\\ 111.3\\ 101.6\\ 91.1\\ 73.4\\ 73.4\\ 84.2\\ 76.2\\ 76.2\\ 76.2\\ 74.1\\ 74.1\\ 70.0\\ 70.0\\ 74.7\\ 74.7\\ 74.7\\ 66.6\\ 68.6\\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1400<br>1200<br>1200<br>1200<br>1200<br>1200<br>1200<br>1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2017.44<br>2026.99<br>2026.99<br>2017.91<br>2017.91<br>2021.45<br>2021.45<br>2024.63<br>2024.63<br>2024.63<br>2030.52<br>2026.93<br>2026.93<br>2028.94<br>2028.94<br>2028.94<br>2028.94<br>2030.30<br>2031.68<br>2031.68<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\begin{array}{c} 2079526\\ 7816750\\ 8,919,574\\ 2,082,442\\ 2,376,242\\ 1,370,0818\\ 1,390,020\\ 2,043,429\\ 1,600,952\\ 3,732,459\\ 3,732,459\\ 3,732,459\\ 3,732,459\\ 3,732,459\\ 3,732,459\\ 3,732,459\\ 3,732,459\\ 3,732,459\\ 3,732,514\\ 3,550,655\\ 4,049,349\\ 3,517,568\\ 3,496,590\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\
4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,264,555\\ 4,26$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2017<br>2026<br>2026<br>2017<br>2017<br>2021<br>2021<br>2024<br>2024<br>2030<br>2026<br>2026<br>2026<br>2028<br>2028<br>2030<br>2030<br>2031<br>2031<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2017.44<br>2026.98<br>2026.99<br>2017.91<br>2017.91<br>2021.43<br>2021.45<br>2024.62<br>2030.52<br>2030.52<br>2030.52<br>2026.93<br>2028.94<br>2028.94<br>2030.30<br>2028.94<br>2030.30<br>2031.68<br>2031.68<br>2031.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | cti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | one                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0.950 km         1.32           1.329 km         1.88           1.329 km         1.88           1.500 km         3.22           1.500 km         3.22           3.226 km         4.03           3.226 km         4.03           4.031 km         12.67           12.870 km         3.86           13.860 km         20.71           12.870 km         3.84           2.4890 km         28.77           2.8.770 km         3.32           2.8.770 km         3.394           3.944 km         35.5           0.000 km         0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 229 km         3           880 km         1           880 km         3           226 km         3           228 km         3           330 km         3           330 km         3           670 km         3           670 km         3           660 km         1           710 km         1           710 km         3           357 km         3           357 km         3           357 km         3           360 km         1           944 km         3           360 km         1           360 km         3           3660 km         1           3660 km         1           367 km         3           367 km         3           367 km         3           367 km         3           366 km         1           366 km         1                                                                  | 78.02<br>105.26<br>105.26<br>94.64<br>85.11<br>85.11<br>67.43<br>67.43<br>78.21<br>78.21<br>78.21<br>72.19<br>68.09<br>68.09<br>63.97<br>63.97<br>68.71<br>68.71<br>68.71<br>68.71<br>68.71<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 84.0<br>111.3<br>111.3<br>100.6<br>91.1<br>91.1<br>73.4<br>84.2<br>78.2<br>78.2<br>74.1<br>74.1<br>74.1<br>70.0<br>70.0<br>74.7<br>74.7<br>74.7<br>74.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2026.99<br>2017.91<br>2017.91<br>2021.45<br>2021.45<br>2024.63<br>2024.63<br>2030.52<br>2026.93<br>2026.93<br>2026.93<br>2026.93<br>2028.94<br>2030.30<br>2031.68<br>2031.68<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 8 919 574<br>2 082 442<br>2 376 242<br>1 370 818<br>1 390 020<br>2 043 429<br>1 600 952<br>3 732 459<br>3 302 752<br>3 732 459<br>3 300 7638<br>2 792 992<br>3 308 929<br>3 308 550<br>4 049 349<br>3 349 550                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2026<br>2017<br>2017<br>2021<br>2021<br>2024<br>2024<br>2030<br>2030<br>2026<br>2026<br>2028<br>2028<br>2028<br>2030<br>2030<br>2031<br>2031<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2026.99<br>2017.91<br>2017.91<br>2021.43<br>2021.45<br>2024.62<br>2030.52<br>2026.93<br>2026.93<br>2026.93<br>2028.94<br>2028.94<br>2030.30<br>2031.68<br>2031.68<br>2031.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.01<br>0.00<br>0.00<br>0.02<br>0.03<br>0.01<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.02<br>0.01<br>0.02<br>0.01<br>0.02<br>0.01<br>0.02<br>0.01<br>0.02<br>0.00<br>0.02<br>0.00<br>0.02<br>0.00<br>0.02<br>0.00<br>0.02<br>0.00<br>0.02<br>0.00<br>0.00<br>0.02<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | cti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | one                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1.329 km         1.58           1.329 km         1.58           1.580 km         3.22           1.580 km         3.22           1.580 km         3.22           3.226 km         4.03           3.226 km         4.03           3.226 km         4.03           4.031 km         12.67           12.670 km         13.86           13.860 km         20.7           20.710 km         24.89           24.890 km         28.77           28.770 km         33.39           30.357 km         33.94           33.944 km         35.6           0.000 km         0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 880 km         1           826 km         3           826 km         1           326 km         1           326 km         1           330 km         1           330 km         1           330 km         1           670 km         3           660 km         1           660 km         1           710 km         3           980 km         3           357 km         3           357 km         3           357 km         3           360 km         1           560 km         1           560 km         1           560 km         1           560 km         1                                                                                                                                                                                                                                      | $\begin{array}{c} 105.26\\ 105.26\\ 94.64\\ 94.64\\ 85.11\\ 85.11\\ 67.43\\ 67.43\\ 78.21\\ 78.21\\ 72.19\\ 68.09\\ 68.09\\ 68.09\\ 68.97\\ 63.97\\ 63.97\\ 68.71\\ 68.71\\ 62.56\\ 62.56\\ 81.41\\ 81.41\\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0           3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\begin{array}{c} 111.3\\ 111.3\\ 100.6\\ 100.6\\ 91.1\\ 91.1\\ 73.4\\ 73.4\\ 84.2\\ 78.2\\ 78.2\\ 78.2\\ 74.1\\ 74.1\\ 70.0\\ 70.0\\ 74.7\\ 74.7\\ 74.7\\ 68.6\\ 68.6\\ 68.6\end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2017.91<br>2021.45<br>2021.45<br>2021.45<br>2024.63<br>2030.52<br>2030.52<br>2026.93<br>2028.94<br>2028.94<br>2028.94<br>2028.94<br>2030.30<br>2031.68<br>2031.68<br>2030.10<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | $\begin{array}{c} 2,082,442\\ 2,376,242\\ 1,370,818\\ 1,390,020\\ 2,043,429\\ 1,600,952\\ 3,732,459\\ 3,607,638\\ 2,792,992\\ 2,699,589\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,308,929\\ 3,30$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2017<br>2017<br>2021<br>2021<br>2024<br>2030<br>2030<br>2026<br>2026<br>2028<br>2028<br>2028<br>2030<br>2030<br>2031<br>2031<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2017.91<br>2021.43<br>2021.45<br>2021.45<br>2024.60<br>2024.62<br>2030.52<br>2030.52<br>2030.52<br>2030.52<br>2026.93<br>2026.93<br>2026.93<br>2028.94<br>2030.30<br>2030.30<br>2031.68<br>20331.68<br>2031.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.00<br>0.00<br>0.02<br>0.03<br>0.01<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | cti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | one                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1.329 km         1.580 km         3.22           1.580 km         3.22         1.580 km         3.22           3.268 km         4.03         3.22 km         4.03           3.268 km         4.03         3.26 km         4.03           4.031 km         12.67         1.380         12.670 km         13.860 km         20.71           13.860 km         20.710 km         24.89         24.89         24.89         24.89         28.770 km         30.33           28.770 km         30.357 km         33.94         33.944 km         35.67         0.000 km         0.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 860 km         3           826 km         1           828 km         3           930 km         1           930 km         3           670 km         3           670 km         3           660 km         1           860 km         1           710 km         3           980 km         3           357 km         3           357 km         3           357 km         3           560 km         1                                                                                                                                                                                                                                                                 | $\begin{array}{c} 105.26\\ 94.64\\ 94.64\\ 85.11\\ 85.11\\ 67.43\\ 78.21\\ 78.21\\ 72.19\\ 68.09\\ 68.09\\ 63.97\\ 63.97\\ 68.71\\ 62.56\\ 87.1\\ 62.56\\ 81.41\\ 81.41\\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 111.3<br>100.6<br>91.1<br>91.1<br>73.4<br>84.2<br>84.2<br>78.2<br>78.2<br>78.2<br>74.1<br>70.0<br>70.0<br>70.0<br>74.7<br>74.7<br>74.7<br>68.6<br>68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2017.91<br>2021.45<br>2021.45<br>2021.45<br>2024.63<br>2024.63<br>2026.93<br>2026.93<br>2026.93<br>2028.94<br>2028.94<br>2028.94<br>2028.94<br>2030.30<br>2031.68<br>2031.68<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | $\begin{array}{c} 2,376,242\\ 1,370,818\\ 1,390,020\\ 2,043,429\\ 1,600,952\\
3,732,459\\ 3,607,638\\ 2,792,992\\ 2,699,589\\ 3,008,929\\ 3,198,272\\ 3,673,514\\ 3,550,665\\ 4,049,349\\ 3,913,931\\ 3,617,568\\ 3,496,590\\ 4,264,505\\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2017<br>2021<br>2021<br>2024<br>2030<br>2030<br>2026<br>2026<br>2028<br>2028<br>2028<br>2030<br>2030<br>2031<br>2031<br>2031<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2017.91<br>2021.43<br>2021.45<br>2024.60<br>2024.62<br>2030.52<br>2030.52<br>2026.93<br>2026.93<br>2028.94<br>2028.94<br>2028.94<br>2030.30<br>2031.68<br>2031.68<br>2031.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.00<br>0.02<br>0.00<br>0.03<br>0.01<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | cti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | one                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1.580 km         3.228 km         4.03           3.226 km         4.03         3.228 km         4.03           4.031 km         12.67         1.08         1.03           12.670 km         13.60         13.80         1.07           13.860 km         20.77         1.07         1.08           13.860 km         20.77         10.710 km         24.89           20.710 km         24.88         28.770 km         30.32           28.770 km         30.357 km         33.94         3.944 km           33.944 km         35.67         0.000 km         0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 226 km 3<br>330 km 3<br>670 km 3<br>670 km 3<br>860 km 3<br>710 km 3<br>860 km 3<br>710 km 1<br>890 km 3<br>770 km 3<br>357 km 3<br>357 km 3<br>357 km 3<br>357 km 3<br>560 km 1<br>560 km 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 94.64<br>85.11<br>67.43<br>67.43<br>78.21<br>72.19<br>68.09<br>68.09<br>68.09<br>63.97<br>63.97<br>63.97<br>68.71<br>68.71<br>62.56<br>81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 100.6<br>91.1<br>91.1<br>73.4<br>84.2<br>78.2<br>78.2<br>78.2<br>78.2<br>78.2<br>74.1<br>74.1<br>70.0<br>70.0<br>70.0<br>74.7<br>74.7<br>74.7<br>68.6<br>68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2021.45<br>2024.63<br>2024.63<br>2030.52<br>2030.52<br>2026.93<br>2028.94<br>2028.94<br>2030.30<br>2030.30<br>2031.68<br>2031.68<br>2031.68<br>2030.10<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | $\begin{array}{c} 1.390,020\\ 2.043,429\\ 1.600,952\\ 3.732,459\\ 3.607,638\\ 2.792,992\\ 2.699,589\\ 3.308,929\\ 3.198,272\\ 3.673,514\\ 3.550,665\\ 4.049,349\\ 3.913,931\\ 3.617,568\\ 3.496,590\\ 4.264,505\\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2021<br>2024<br>2030<br>2030<br>2026<br>2028<br>2028<br>2028<br>2030<br>2030<br>2030<br>2031<br>2031<br>2031                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2021.45<br>2024.60<br>2024.62<br>2030.52<br>2026.93<br>2026.93<br>2028.94<br>2028.94<br>2030.30<br>2031.68<br>2031.68<br>2031.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.02<br>0.00<br>0.03<br>0.01<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | cti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ioue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3.226 km         4.03           3.228 km         4.03           3.228 km         4.03           4.031 km         12.67           4.031 km         12.67           12.670 km         13.86           13.860 km         20.7           13.860 km         20.7           20.710 km         24.89           24.890 km         28.77           28.770 km         30.357 km           30.357 km         33.94           33.944 km         35.56           30.94 km         35.57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 330 km         1           670 km         1           670 km         1           670 km         1           860 km         1           860 km         1           710 km         1           980 km         1           980 km         3           770 km         3           357 km         3           357 km         3           357 km         3           360 km         1           944 km         3           560 km         1           560 km         1                                                                                                                                                                                                                                                                                                                                                  | 85.11<br>85.11<br>67.43<br>67.43<br>78.21<br>78.21<br>72.19<br>68.09<br>68.09<br>63.97<br>63.97<br>63.97<br>68.71<br>68.71<br>62.56<br>62.56<br>62.56<br>81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 91.1<br>91.1<br>73.4<br>73.4<br>84.2<br>78.2<br>78.2<br>74.1<br>74.1<br>74.1<br>70.0<br>70.0<br>74.7<br>74.7<br>68.6<br>68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2024.63<br>2024.63<br>2030.52<br>2030.52<br>2026.93<br>2028.94<br>2028.94<br>2030.30<br>2031.68<br>2031.68<br>2031.68<br>2031.68<br>2030.10<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 2.043,429<br>1.600,952<br>3.732,459<br>3.607,638<br>2.792,992<br>2.699,589<br>3.308,929<br>3.198,272<br>3.673,514<br>3.550,665<br>4.049,349<br>3.913,931<br>3.617,568<br>3.496,590<br>4.264,505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2024<br>2024<br>2030<br>2030<br>2026<br>2026<br>2028<br>2028<br>2030<br>2030<br>2030<br>2031<br>2031<br>2030<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2024.60<br>2024.62<br>2030.52<br>2030.52<br>2026.93<br>2026.93<br>2028.94<br>2030.30<br>2030.30<br>2031.68<br>2031.68<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.00<br>0.03<br>0.01<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | cti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3.226 km         4.03           4.031 km         12.67           4.031 km         12.67           12.670 km         13.860           13.860 km         20.7           13.860 km         20.7           20.710 km         43.82           20.710 km         43.82           20.710 km         43.82           24.890 km         28.77           28.770 km         30.357 km           30.357 km         33.94           33.944 km         35.56           0.000 km         0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 330 km         3           670 km         1           670 km         1           860 km         1           860 km         3           710 km         3           890 km         3           890 km         3           980 km         3           367 km         1           367 km         3           367 km         3           944 km         3           560 km         1           560 km         1                                                                                                                                                                                                                                                                                                                                                                                                        | 85.11<br>67.43<br>67.43<br>78.21<br>72.19<br>72.19<br>68.09<br>68.09<br>68.09<br>63.97<br>63.97<br>63.97<br>68.71<br>62.56<br>62.56<br>81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 91.1<br>73.4<br>73.4<br>84.2<br>78.2<br>78.2<br>78.2<br>74.1<br>74.1<br>74.1<br>70.0<br>70.0<br>70.0<br>74.7<br>74.7<br>68.6<br>68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2024.63<br>2030.52<br>2030.52<br>2026.93<br>2028.94<br>2028.94<br>2030.30<br>2030.30<br>2031.68<br>2031.68<br>2030.10<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 1,600,952<br>3,732,459<br>3,607,638<br>2,792,992<br>2,699,589<br>3,308,929<br>3,198,272<br>3,673,514<br>3,550,665<br>4,049,349<br>3,913,931<br>3,617,568<br>3,496,590<br>4,264,505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2024<br>2030<br>2026<br>2026<br>2028<br>2028<br>2030<br>2030<br>2030<br>2031<br>2031<br>2030<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2024.62<br>2030.52<br>2026.93<br>2026.93<br>2028.94<br>2028.94<br>2030.30<br>2030.30<br>2031.68<br>2031.68<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.01<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | cti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 011-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4.031 km 12.6;<br>12.670 km 13.86<br>12.670 km 13.86<br>13.860 km 20.7;<br>20.710 km 24.86<br>24.890 km 28.7;<br>24.890 km 28.7;<br>24.890 km 28.7;<br>24.890 km 28.7;<br>24.890 km 28.7;<br>30.357 km 30.3;<br>30.357 km 33.9;<br>30.357 km 33.9;<br>30.344 km 35.5;<br>0.000 km 0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 670 km         3           860 km         1           860 km         1           710 km         1           710 km         3           890 km         1           890 km         3           770 km         3           367 km         1           357 km         3           944 km         1           944 km         3           560 km         1           560 km         1           565 km         1                                                                                                                                                                                                                                                                                                                                                                                                        | 67.43<br>78.21<br>72.19<br>72.19<br>68.09<br>63.97<br>63.97<br>68.71<br>68.71<br>62.56<br>62.56<br>81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 73.4<br>84.2<br>78.2<br>78.2<br>74.1<br>74.1<br>70.0<br>70.0<br>70.0<br>74.7<br>74.7<br>68.6<br>68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2030.52<br>2026.93<br>2028.94<br>2028.94<br>2030.30<br>2030.30<br>2031.68<br>2031.68<br>2031.68<br>2030.10<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 3,607,638<br>2,792,992<br>2,699,589<br>3,308,929<br>3,198,272<br>3,673,514<br>3,550,665<br>4,049,349<br>3,913,931<br>3,617,568<br>3,496,590<br>4,264,505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2030<br>2026<br>2028<br>2028<br>2030<br>2030<br>2031<br>2031<br>2031<br>2030<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2030.52<br>2026.93<br>2028.94<br>2028.94<br>2030.30<br>2030.30<br>2031.68<br>2031.68<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | cti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 12.670 km 13.86<br>12.670 km 13.86<br>13.860 km 20.7<br>13.860 km 20.7<br>20.710 km 24.88<br>20.710 km 24.88<br>20.710 km 24.88<br>24.890 km 28.77<br>24.890 km 30.33<br>28.770 km 30.33<br>28.770 km 30.33<br>30.357 km 33.94<br>33.944 km 35.56<br>0.000 km 0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 860 km         1           860 km         3           710 km         1           710 km         3           880 km         3           770 km         1           770 km         3           367 km         3           367 km         3           944 km         3           560 km         1           560 km         3           560 km         1           560 km         3           565 km         1                                                                                                                                                                                                                                                                                                                                                                                                        | 78.21<br>78.21<br>72.19<br>72.19<br>68.09<br>68.09<br>63.97<br>63.97<br>68.71<br>68.71<br>62.56<br>62.56<br>62.56<br>81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 84.2<br>84.2<br>78.2<br>78.2<br>74.1<br>74.1<br>70.0<br>70.0<br>70.0<br>74.7<br>74.7<br>68.6<br>68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2026.93<br>2028.94<br>2028.94<br>2030.30<br>2030.30<br>2031.68<br>2031.68<br>2030.10<br>2030.10<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 2,792,992<br>2,699,589<br>3,308,929<br>3,198,272<br>3,673,514<br>3,550,665<br>4,049,349<br>3,913,931<br>3,617,568<br>3,496,590<br>4,264,505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2026<br>2028<br>2028<br>2030<br>2030<br>2031<br>2031<br>2031<br>2030<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2026.93<br>2026.93<br>2028.94<br>2030.30<br>2030.30<br>2031.68<br>2031.68<br>2031.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ctl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 12 670 km         13 860 km           13 860 km         20.71           13 860 km         20.71           13 860 km         20.71           20.710 km         24.82           24 890 km         28.77           24 700 km         30.35           28.770 km         30.35           30.357 km         33.94           33 944 km         35.56           3.000 km         0.000 km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 860 km         3           710 km         1           710 km         3           890 km         1           890 km         3           770 km         3           357 km         1           357 km         3           944 km         1           944 km         3           560 km         1           560 km         3           565 km         1                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 78.21<br>72.19<br>68.09<br>63.97<br>63.97<br>63.97<br>68.71<br>68.71<br>62.56<br>62.56<br>81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 84.2<br>78.2<br>74.1<br>74.1<br>70.0<br>70.0<br>74.7<br>74.7<br>68.6<br>68.6<br>68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2026.93<br>2028.94<br>2028.94<br>2030.30<br>2031.68<br>2031.68<br>2030.10<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 2,699,589<br>3,308,929<br>3,198,272<br>3,673,514<br>3,550,665<br>4,049,349<br>3,913,931<br>3,617,568<br>3,496,590<br>4,264,505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2026<br>2028<br>2028<br>2030<br>2030<br>2031<br>2031<br>2031<br>2030<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2026.93<br>2028.94<br>2028.94<br>2030.30<br>2030.30<br>2031.68<br>2031.68<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No<br>No<br>No<br>No<br>No<br>No<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ,CL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 13.860 km         20.71           20.710 km         24.82           20.710 km         24.82           24.890 km         28.77           24.890 km         28.77           28.770 km         30.35           30.357 km         33.94           33.944 km         35.56           0.000 km         0.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 710 km         3           890 km         1           890 km         3           770 km         1           770 km         3           357 km         3           357 km         3           367 km         1           367 km         3           367 km         3           560 km         1           560 km         3           365 km         1                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 72.19<br>68.09<br>63.97<br>63.97<br>68.71<br>68.71<br>68.71<br>62.56<br>62.56<br>81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 78.2<br>74.1<br>74.1<br>70.0<br>70.0<br>74.7<br>74.7<br>68.6<br>68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2028.94<br>2030.30<br>2030.30<br>2031.68<br>2031.68<br>2030.10<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 3,198,272<br>3,673,514<br>3,550,665<br>4,049,349<br>3,913,931<br>3,617,568<br>3,496,590<br>4,264,505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2028<br>2030<br>2030<br>2031<br>2031<br>2030<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2028.94<br>2030.30<br>2030.30<br>2031.68<br>2031.68<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No<br>No<br>No<br>No<br>No<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 20.710 km 24.88<br>20.710 km 24.89<br>24.890 km 28.77<br>24.890 km 28.77<br>28.770 km 30.33<br>30.357 km 33.94<br>30.357 km 35.56<br>33.944 km 35.56<br>0.000 km 0.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 890 km         1           880 km         3           770 km         1           770 km         3           357 km         1           357 km         3           944 km         3           560 km         1           560 km         3           365 km         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 68.09<br>68.09<br>63.97<br>63.97<br>68.71<br>68.71<br>62.56<br>62.56<br>81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 74.1<br>74.1<br>70.0<br>70.0<br>74.7<br>74.7<br>68.6<br>68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2030.30<br>2030.30<br>2031.68<br>2031.68<br>2030.10<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 3,673,514<br>3,550,665<br>4,049,349<br>3,913,931<br>3,617,568<br>3,496,590<br>4,264,505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2030<br>2030<br>2031<br>2031<br>2030<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2030.30<br>2030.30<br>2031.68<br>2031.68<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NO           No           No           No           No           No           No           No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 20.710 km 24.89<br>24.890 km 28.77<br>24.890 km 28.77<br>24.700 km 30.35<br>28.770 km 30.35<br>30.357 km 33.94<br>33.944 km 35.56<br>33.944 km 35.56<br>0.000 km 0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 890 km         3           770 km         1           770 km         3           357 km         1           357 km         3           944 km         1           944 km         3           560 km         3           965 km         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 68.09<br>63.97<br>68.71<br>68.71<br>62.56<br>62.56<br>81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 74.1<br>70.0<br>70.0<br>74.7<br>74.7<br>68.6<br>68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0<br>120.0<br>120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2030.30<br>2031.68<br>2031.68<br>2030.10<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 3,550,665<br>4,049,349<br>3,913,931<br>3,617,568<br>3,496,590<br>4,264,505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2030<br>2031<br>2031<br>2030<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2030.30<br>2031.68<br>2031.68<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.00<br>0.00<br>0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No<br>No<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 24.890 km         28.77           28.770 km         30.35           28.770 km         30.35           30.357 km         33.94           30.357 km         35.94           33.944 km         35.56           0.000 km         0.06           0.000 km         0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 770 km         3           357 km         1           357 km         3           944 km         1           944 km         3           560 km         1           560 km         3           965 km         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 63.97<br>68.71<br>62.56<br>62.56<br>81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 70.0<br>74.7<br>74.7<br>68.6<br>68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2031.68<br>2030.10<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 3,913,931<br>3,617,568<br>3,496,590<br>4,264,505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2031<br>2030<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2031.68<br>2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No<br>No<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | $\mathbf{r}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 28.770 km         30.35           28.770 km         30.35           30.357 km         33.94           30.357 km         33.94           33.944 km         35.56           0.000 km         0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 357 km         1           357 km         3           944 km         1           944 km         3           560 km         1           560 km         3           065 km         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 68.71<br>68.71<br>62.56<br>62.56<br>81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2013<br>2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0<br>3.0<br>3.0<br>3.0<br>3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 74.7<br>74.7<br>68.6<br>68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2030.10<br>2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 3,617,568<br>3,496,590<br>4,264,505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2030<br>2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2030.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 28.770 km         30.35           30.357 km         33.94           30.357 km         33.94           33.944 km         35.56           0.000 km         0.06           0.000 km         0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 357 km         3           944 km         1           944 km         3           560 km         1           560 km         3           065 km         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 68.71<br>62.56<br>62.56<br>81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2013<br>2013<br>2013<br>2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0<br>3.0<br>3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 74.7<br>68.6<br>68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2030.10<br>2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 3,496,590<br>4,264,505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 30.357 km         33.94           33.944 km         35.56           33.944 km         35.56           0.000 km         0.06           0.000 km         0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 944 km 3<br>560 km 1<br>560 km 3<br>065 km 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 62.56<br>81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2013<br>2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 68.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2032                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | | |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 33.944 km 35.56<br>33.944 km 35.56<br>0.000 km 0.06<br>0.000 km 0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 560 km 1<br>560 km 3<br>065 km 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 81.41<br>81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2032.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | | |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 33.944 km 35.56<br>0.000 km 0.06<br>0.000 km 0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 560 km 3<br>065 km 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 81.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2032.15 2025.86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 4,041,204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2032                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2032.15<br>2025.86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 0.000 km 0.06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 166.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 87.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2025.86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 2,160,999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2025.86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 175.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 180.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2016.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 590,882                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2016.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 166.00<br>110.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2012<br>2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 175.0<br>119.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 180.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2016.67 2015.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 509,659<br>227,166                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2016<br>2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2016.67<br>2015.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 19 km 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 110.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 119.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2015.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 195,940                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2015.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1.119 km 6.72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 88.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 97.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2022.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 1,352,806                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2022.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1.119 km 6.72<br>6.724 km 9.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 88.51<br>49.61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2012<br>2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.0<br>3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 97.5<br>58.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0<br>120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2022.50<br>2035.46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 1,388,921<br>4,013,861                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2022<br>2035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2022.50<br>2035.46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 6.724 km 9.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 49.61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 58.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2035.46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 4,013,001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2035                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2035.46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 53.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 62.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2034.28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 3,741,202                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2034                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2034.28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | | |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 72.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 81.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2027.89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 2,435,165                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2027                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2027.89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 84.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 93.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2023.83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | | |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 82.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 91.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2024.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 118.99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 128.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 130.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2015.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 241,587                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2015.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | | |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 73.65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 82.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2027.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 409,688                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2027                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2027.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 27.180 km 40.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 680 km 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 76.84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 85.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2026.39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 75,022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2026.39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | | |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 76.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 85.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2026.62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 130,363                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2026.62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 48.390 km 49.59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 590 km 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 96.65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 105.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2019.78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 32,071                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2019.78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | | |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 49.590 km 59.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 160 km 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 79.44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 88.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2025.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 117,314                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2025.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 68.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 77.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2029.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 94,129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2029                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2029.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | | |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 77.94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 86.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2026.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 123,141                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2026.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 89.030 km 89.57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 570 km 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 71.94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 80.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2028.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 86,664                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2028.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 89.030 km   89.57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 570 km 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 71.94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 80.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2028.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               
                                                   | 147,329                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2028.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9.089 km         10.           9.089 km         10.           10.984 km         15.           10.84 km         15.           10.70 km         17.           15.710 km         17.           17.175 km         20.           17.175 km         20.           20.465 km         21.           20.465 km         21.           21.340 km         27.           21.340 km         40.           40.680 km         48.           48.390 km         49.           49.590 km         59.           59.160 km         77.           77.170 km         89.           77.170 km         89.           77.170 km         89.           59.160 km         77.           77.170 km         89.           77.170 km         89.           77.170 km         89.           77.170 km         89.           77.170 km         89. | 9.099 km 10.984 km 1<br>9.090 km 10.984 km 3<br>10.984 km 15.170 km 3<br>10.984 km 15.170 km 1<br>15.170 km 17.175 km 1<br>15.170 km 17.175 km 1<br>17.175 km 20.465 km 3<br>20.465 km 21.340 km 1<br>17.175 km 20.465 km 3<br>20.465 km 21.340 km 3<br>21.340 km 27.180 km 3<br>21.340 km 27.180 km 3<br>21.340 km 32.180 km 3<br>27.180 km 40.680 km 3<br>40.680 km 48.390 km 3<br>40.680 km 48.390 km 1<br>48.390 km 49.590 km 3<br>49.590 km 59.160 km 1<br>49.590 km 59.160 km 3<br>59.160 km 77.170 km 3<br>37.170 km 89.030 km 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9.089 km         10.984 km         1         53.16           9.089 km         10.984 km         3         53.16           10.984 km         15.170 km         1         72.33           10.984 km         15.170 km         3         72.33           15.170 km         1         72.33         18.451           15.170 km         1.71.75 km         84.51         18.201           17.175 km         20.465 km         3         82.01           17.175 km         20.465 km         3         82.01           17.175 km         20.465 km         118.99         20.465 km           20.465 km         21.340 km         118.99         20.465 km           21.340 km         27.180 km         3         73.65           21.340 km         27.180 km         3         76.64           40.680 km         48.390 km         1         76.84           40.680 km         49.590 km         96.65         49.590 km         96.65           49.590 km         59.160 km         77.94         79.44         59.160 km         77.94           59.160 km         77.170 km         3         68.90         77.194         77.94           59.160 km         77.19 | 9.089 km         10.984 km         1         53.16         2012           9.089 km         10.984 km         3         63.16         2012           10.984 km         15.170 km         1         72.33         2012           10.984 km         15.170 km         1         72.33         2012           15.70 km         17.175 km         3         44.51         2012           15.170 km         17.175 km         3         84.51         2012           17.175 km         20.465 km         1         82.01         2012           20.465 km         21.340 km         1         118.99         2012           20.465 km         21.340 km         3         73.65         2012           21.340 km         27.180 km         1         76.84         2012           27.180 km         40.680 km         1         76.84         2012           27.180 km         40.680 km         3         76.64         2012           27.180 km         40.590 km         3         96.65         2012           48.390 km         49.590 km         3         96.65         2012           49.590 km         59.160 km         3         79.44         2012 | 9.089 km         10.984 km         1         53.16         2012         3.0           9.089 km         10.984 km         3         53.16         2012         3.0           10.984 km         15.170 km         1         72.33         2012         3.0           10.984 km         15.170 km         1         72.33         2012         3.0           10.984 km         15.170 km         1         72.33         2012         3.0           15.170 km         17.175 km         1         84.51         2012         3.0           15.170 km         17.175 km         20.465 km         1         82.01         2012         3.0           17.175 km         20.465 km         1         82.01         2012         3.0           20.465 km         1.340 km         1         118.99         2012         3.0           21.340 km         27.180 km         3         73.65         2012         3.0           27.180 km         40.680 km         1         76.84         2012         3.0           27.180 km         40.680 km         1         76.13         2012         3.0           49.590 km         95.160 km         1         79.44         2012 </td <td>9.098 km         10.994 km         1         53.16         2012         3.0         62.2           9.098 km         10.994 km         3         53.16         2012         3.0         62.2           10.984 km         15.170 km         1         72.33         2012         3.0         81.3           10.984 km         15.170 km         1         72.33         2012         3.0        
81.3           15.170 km         17.175 km         1         84.61         2012         3.0         93.5           15.170 km         17.175 km         3         84.51         2012         3.0         93.5           17.175 km         20.465 km         1         82.01         2012         3.0         91.0           17.175 km         20.465 km         1         82.01         2012         3.0         91.0           20.465 km         21.340 km         1         118.99         2012         3.0         128.0           21.340 km         27.180 km         3         73.65         2012         3.0         82.7           27.180 km         40.680 km         1         76.84         2012         3.0         85.8           27.180 km         40.680 km</td> <td>9.098 km         10.994 km         1         53.16         2012         3.0         62.2         120.0           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0           15.170 km         17.175 km         3         84.51         2012         3.0         93.5         120.0           15.170 km         17.175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0           17.175 km         20.465 km         1         82.01         2012         3.0         128.0         130.0           20.465 km         21.340 km         1         118.99         2012         3.0         82.7         120.0           21.340 km         27.180 km         3         76.64         2012         3.0         85.8         120.0<!--</td--><td>9.098 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28           10.984 km         15.170 km         1         72.33         2012         3.0         63.2         120.0         2034.28           10.984 km         15.170 km         1         72.33         2012         3.0         61.3         120.0         2027.89           10.984 km         15.170 km         3         72.33         2012         3.0         61.3         120.0         2027.89           10.984 km         15.170 km         17.175 km         3.45.11         2012         3.0         93.5         120.0         2023.83           15.170 km         17.175 km         3.46.51         2012         3.0         91.0         120.0         2024.66           17.175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66           17.175 km         20.465 km         3         82.01         2012         3.0         128.0         130.0         2015.67           20.465 km         1.340 km         3         73.65         2012         3.0         82.7         120.0         2027.45     &lt;</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034,28         3.741,202           9.089 km         10.984 km         1         72.33         2012         3.0         62.2         120.0         2034,28         3.841,079           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371,846           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.435,165           15.170 km         17.175 km         1         84.51         2012         3.0         93.5         120.0         2023.83         1.563,149           15.170 km         17.175 km         2.0465 km         1         82.01         2012         3.0         91.0         120.0         2024.66         1.747,329           17.175 km         20.465 km         3         82.01         2012         3.0         128.0         130.0         2015.67         241,587           20.465 km         21.340 km         21.340 km         3         73.65         2012         3.0         82.7         120.0         202</td><td>9.098 km         10.994 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034           0.098 km         10.994 km         3         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.435.165         2027           15.170 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.989.149         2023           15.170 km         17.175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1.747.329         2024           17.175 km         20.465 km         3         82.01         2012         3.0         128.0         130.0         2015.57         241.587         2015           20.465 km         21.340 km         3</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034 28           10.984 km         15.170 km         1         72.33         2012         3.0         62.2         120.0         2037.89         2.371.846         2027         2027.89           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.431.656         2027         2023.83           15.170 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.639.680         2023         2023.83           15.170 km         17.175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1,747.328         2024         2024.66           17.175 km         20.465 km         3         31.899         2012         3.0         128.0         130.0         <td< td=""><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034.28         3.041.079         2034.28         0.00           10.984 km         15.170 km         1         72.33         2012         3.0         62.2         120.0         2034.28         3.041.079         2034.28         0.00           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00           15.70 km         1         84.51         2012         3.0         93.5         120.0         2023.83         1.693.680         2023         2023.83         0.00           15.70 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.693.680         2023         2023.83         0.00           17.175 km         20.465 km         1         82.01         2012         3.0         91.0         120.0         2024.66         1.793.976         2024         2024.66         0.00           20.465 km         21.340 km         1         118.99         2012</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2037.88         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         1         84.651         2012         3.0         93.5         120.0         2023.83         1.585.680         2023         2023.83         0.00         No           15.170 km         17.175 km         3.84.51         2012         3.0         91.0         120.0         2024.66         1.747.39         2024.266         0.00         No           17.175 km         20.465 km         3         82.01         2012         3.0         128.0         130.0         2015.67         2014.80         0.00         No           20.465 km         21.340 km</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           15.170 km         1         84.651         2012         3.0         93.5         120.0         2023.83         1.585.680         2023         2023.83         0.00         No           15.170 km         17.175 km         3         84.51         2012         3.0         91.0         120.0         2024.66         1.743.79 
       2024         2024.66         0.00         No           17.175 km         20.465 km         3         82.01         20.12         3.0         128.0         130.0         2015.67         2015.67         0.00         No           20.465 km         21.340</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         1         74.51         84.51         2012         3.0         93.5         120.0         2023.83         1.683.680         2023         2023.83         0.00         No           11.7175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1.743.79         2024         2024.66         0.00         No           20.465 km         1         11.899         2012         3.0         128.0         130.0         2015.67         2015.67         0.00         No           21.340 km<!--</td--><td>9.099 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         61.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         61.3         120.0         2027.89         2.435.165         2027         2027.89         0.00         No           15.170 km         17.175 km         84.51         2012         3.0         93.5         120.0         2023.83         1.636,660         2023         2023.83         0.00         No           15.170 km         17.175 km         3.84.51         2012         3.0         91.0         120.0         2024.66         1.747.32         2024         2024.66         0.00         No           17.175 km         2.0465 km         3         82.01         2012         3.0         128.0         130.0         2015.67         2015.67         0.00         No           20.465 km         21.340 km         3</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2034.28         3.841.079         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.435.165         2027         2027.89         0.00         No           15.170 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.685.680         2023         2023.83         0.00         No           17.175 km         2.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1.783.976         2024         2024.66         0.00         No           20.465 km         1.340 km         1         118.99         2012         3.0         128.0         130.0         2015.67         0.00         No           20.465 km         1.340 km         3<!--</td--></td></td></td<></td></td> | 9.098 km         10.994 km         1         53.16         2012         3.0         62.2           9.098 km         10.994 km         3         53.16         2012         3.0         62.2           10.984 km         15.170 km         1         72.33         2012         3.0         81.3           10.984 km         15.170 km         1         72.33         2012         3.0         81.3           15.170 km         17.175 km         1         84.61         2012         3.0         93.5           15.170 km         17.175 km         3         84.51         2012         3.0         93.5           17.175 km         20.465 km         1         82.01         2012         3.0         91.0           17.175 km         20.465 km         1         82.01         2012         3.0         91.0           20.465 km         21.340 km         1         118.99         2012         3.0         128.0           21.340 km         27.180 km         3         73.65         2012         3.0         82.7           27.180 km         40.680 km         1         76.84         2012         3.0         85.8           27.180 km         40.680 km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 9.098 km         10.994 km         1         53.16         2012         3.0         62.2         120.0           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0           15.170 km         17.175 km         3         84.51         2012         3.0         93.5         120.0           15.170 km         17.175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0           17.175 km         20.465 km         1         82.01         2012         3.0         128.0         130.0           20.465 km         21.340 km         1         118.99         2012         3.0         82.7         120.0           21.340 km         27.180 km         3         76.64         2012         3.0         85.8         120.0 </td <td>9.098 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28           10.984 km         15.170 km         1         72.33         2012         3.0         63.2         120.0         2034.28           10.984 km         15.170 km         1         72.33         2012         3.0         61.3         120.0         2027.89           10.984 km         15.170 km         3         72.33         2012         3.0         61.3         120.0         2027.89           10.984 km         15.170 km         17.175 km         3.45.11         2012         3.0         93.5         120.0         2023.83           15.170 km         17.175 km         3.46.51         2012         3.0         91.0         120.0         2024.66           17.175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66           17.175 km         20.465 km         3         82.01         2012         3.0         128.0         130.0         2015.67           20.465 km         1.340 km         3         73.65         2012         3.0         82.7         120.0         2027.45     &lt;</td> <td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034,28         3.741,202           9.089 km         10.984 km         1         72.33         2012         3.0         62.2         120.0         2034,28         3.841,079           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371,846           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.435,165           15.170 km         17.175 km         1         84.51         2012         3.0         93.5         120.0         2023.83        
1.563,149           15.170 km         17.175 km         2.0465 km         1         82.01         2012         3.0         91.0         120.0         2024.66         1.747,329           17.175 km         20.465 km         3         82.01         2012         3.0         128.0         130.0         2015.67         241,587           20.465 km         21.340 km         21.340 km         3         73.65         2012         3.0         82.7         120.0         202</td> <td>9.098 km         10.994 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034           0.098 km         10.994 km         3         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.435.165         2027           15.170 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.989.149         2023           15.170 km         17.175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1.747.329         2024           17.175 km         20.465 km         3         82.01         2012         3.0         128.0         130.0         2015.57         241.587         2015           20.465 km         21.340 km         3</td> <td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034 28           10.984 km         15.170 km         1         72.33         2012         3.0         62.2         120.0         2037.89         2.371.846         2027         2027.89           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.431.656         2027         2023.83           15.170 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.639.680         2023         2023.83           15.170 km         17.175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1,747.328         2024         2024.66           17.175 km         20.465 km         3         31.899         2012         3.0         128.0         130.0         <td< td=""><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034.28         3.041.079         2034.28         0.00           10.984 km         15.170 km         1         72.33         2012         3.0         62.2         120.0         2034.28         3.041.079         2034.28         0.00           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00           15.70 km         1         84.51         2012         3.0         93.5         120.0         2023.83         1.693.680         2023         2023.83         0.00           15.70 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.693.680         2023         2023.83         0.00           17.175 km         20.465 km         1         82.01         2012         3.0         91.0         120.0         2024.66         1.793.976         2024         2024.66         0.00           20.465 km         21.340 km         1         118.99         2012</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2037.88         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         1         84.651         2012         3.0         93.5         120.0         2023.83         1.585.680         2023         2023.83         0.00         No           15.170 km         17.175 km         3.84.51         2012         3.0         91.0         120.0         2024.66         1.747.39         2024.266         0.00         No           17.175 km         20.465 km         3         82.01         2012         3.0         128.0         130.0         2015.67         2014.80         0.00         No           20.465 km         21.340 km</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           15.170 km         1         84.651         2012         3.0         93.5         120.0         2023.83         1.585.680         2023         2023.83         0.00         No           15.170 km         17.175 km         3         84.51         2012         3.0         91.0         120.0         2024.66         1.743.79         2024         2024.66         0.00         No           17.175 km         20.465 km         3         82.01         20.12         3.0         128.0         130.0         2015.67         2015.67         0.00         No           20.465 km         21.340</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         1         74.51         84.51         2012         3.0         93.5         120.0         2023.83         1.683.680         2023         2023.83         0.00         No           11.7175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1.743.79         2024         2024.66         0.00         No           20.465 km         1         11.899         2012         3.0         128.0         130.0         2015.67         2015.67         0.00         No           21.340 km<!--</td--><td>9.099 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         61.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         61.3         120.0         2027.89         2.435.165         2027         2027.89         0.00         No           15.170 km         17.175 km         84.51         2012         3.0         93.5         120.0         2023.83         1.636,660         2023         2023.83         0.00         No           15.170 km         17.175 km         3.84.51         2012         3.0         91.0         120.0         2024.66         1.747.32         2024         2024.66         0.00         No           17.175 km         2.0465 km         3         82.01         2012         3.0         128.0         130.0         2015.67         2015.67         0.00         No           20.465 km         21.340 km         3</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2034.28         3.841.079         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.435.165         2027         2027.89         0.00         No           15.170 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.685.680         2023         2023.83         0.00         No           17.175 km         2.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1.783.976         2024         2024.66         0.00         No           20.465 km         1.340 km         1         118.99         2012         3.0         128.0         130.0         2015.67         0.00         No           20.465 km    
    1.340 km         3<!--</td--></td></td></td<></td> | 9.098 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28           10.984 km         15.170 km         1         72.33         2012         3.0         63.2         120.0         2034.28           10.984 km         15.170 km         1         72.33         2012         3.0         61.3         120.0         2027.89           10.984 km         15.170 km         3         72.33         2012         3.0         61.3         120.0         2027.89           10.984 km         15.170 km         17.175 km         3.45.11         2012         3.0         93.5         120.0         2023.83           15.170 km         17.175 km         3.46.51         2012         3.0         91.0         120.0         2024.66           17.175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66           17.175 km         20.465 km         3         82.01         2012         3.0         128.0         130.0         2015.67           20.465 km         1.340 km         3         73.65         2012         3.0         82.7         120.0         2027.45     <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034,28         3.741,202           9.089 km         10.984 km         1         72.33         2012         3.0         62.2         120.0         2034,28         3.841,079           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371,846           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.435,165           15.170 km         17.175 km         1         84.51         2012         3.0         93.5         120.0         2023.83         1.563,149           15.170 km         17.175 km         2.0465 km         1         82.01         2012         3.0         91.0         120.0         2024.66         1.747,329           17.175 km         20.465 km         3         82.01         2012         3.0         128.0         130.0         2015.67         241,587           20.465 km         21.340 km         21.340 km         3         73.65         2012         3.0         82.7         120.0         202 | 9.098 km         10.994 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034           0.098 km         10.994 km         3         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.435.165         2027           15.170 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.989.149         2023           15.170 km         17.175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1.747.329         2024           17.175 km         20.465 km         3         82.01         2012         3.0         128.0         130.0         2015.57         241.587         2015           20.465 km         21.340 km         3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034 28           10.984 km         15.170 km         1         72.33         2012         3.0         62.2         120.0         2037.89         2.371.846         2027         2027.89           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.431.656         2027         2023.83           15.170 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.639.680         2023         2023.83           15.170 km         17.175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1,747.328         2024         2024.66           17.175 km         20.465 km         3         31.899         2012         3.0         128.0         130.0 <td< td=""><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034.28         3.041.079         2034.28         0.00           10.984 km         15.170 km         1         72.33         2012         3.0         62.2         120.0         2034.28         3.041.079         2034.28         0.00           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00           15.70 km         1         84.51         2012         3.0         93.5         120.0         2023.83         1.693.680         2023         2023.83         0.00           15.70 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.693.680         2023         2023.83         0.00           17.175 km         20.465 km         1         82.01         2012         3.0         91.0         120.0         2024.66         1.793.976         2024         2024.66         0.00           20.465 km         21.340 km         1         118.99         2012</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2037.88         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km       
 1         84.651         2012         3.0         93.5         120.0         2023.83         1.585.680         2023         2023.83         0.00         No           15.170 km         17.175 km         3.84.51         2012         3.0         91.0         120.0         2024.66         1.747.39         2024.266         0.00         No           17.175 km         20.465 km         3         82.01         2012         3.0         128.0         130.0         2015.67         2014.80         0.00         No           20.465 km         21.340 km</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           15.170 km         1         84.651         2012         3.0         93.5         120.0         2023.83         1.585.680         2023         2023.83         0.00         No           15.170 km         17.175 km         3         84.51         2012         3.0         91.0         120.0         2024.66         1.743.79         2024         2024.66         0.00         No           17.175 km         20.465 km         3         82.01         20.12         3.0         128.0         130.0         2015.67         2015.67         0.00         No           20.465 km         21.340</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         1         74.51         84.51         2012         3.0         93.5         120.0         2023.83         1.683.680         2023         2023.83         0.00         No           11.7175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1.743.79         2024         2024.66         0.00         No           20.465 km         1         11.899         2012         3.0         128.0         130.0         2015.67         2015.67         0.00         No           21.340 km<!--</td--><td>9.099 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         61.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         61.3         120.0         2027.89         2.435.165         2027         2027.89         0.00         No           15.170 km         17.175 km         84.51         2012         3.0         93.5         120.0         2023.83         1.636,660         2023         2023.83         0.00         No           15.170 km         17.175 km         3.84.51         2012         3.0         91.0         120.0         2024.66         1.747.32         2024         2024.66         0.00         No           17.175 km         2.0465 km         3         82.01         2012         3.0         128.0         130.0         2015.67         2015.67         0.00         No           20.465 km         21.340 km         3</td><td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2034.28         3.841.079         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.435.165         2027         2027.89         0.00         No           15.170 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.685.680         2023         2023.83         0.00         No           17.175 km         2.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1.783.976         2024         2024.66         0.00         No           20.465 km         1.340 km         1         118.99         2012         3.0         128.0         130.0         2015.67         0.00         No           20.465 km         1.340 km         3<!--</td--></td></td></td<> | 9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034.28         3.041.079         2034.28         0.00           10.984 km         15.170 km         1         72.33         2012         3.0         62.2         120.0         2034.28         3.041.079         2034.28         0.00           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00           15.70 km         1         84.51         2012         3.0         93.5         120.0         2023.83         1.693.680         2023         2023.83         0.00           15.70 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.693.680         2023         2023.83         0.00           17.175 km         20.465 km         1         82.01         2012         3.0         91.0         120.0         2024.66         1.793.976         2024         2024.66         0.00           20.465 km         21.340 km         1         118.99         2012 | 9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2037.88         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         1         84.651         2012         3.0         93.5         120.0         2023.83         1.585.680         2023         2023.83         0.00         No           15.170 km         17.175 km         3.84.51         2012         3.0         91.0         120.0         2024.66         1.747.39         2024.266         0.00         No           17.175 km         20.465 km         3         82.01         2012         3.0         128.0         130.0         2015.67         2014.80         0.00         No           20.465 km         21.340 km | 9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           15.170 km         1         84.651         2012         3.0         93.5         120.0         2023.83         1.585.680         2023         2023.83         0.00         No           15.170 km         17.175 km         3         84.51         2012         3.0         91.0         120.0         2024.66         1.743.79         2024         2024.66         0.00         No           17.175 km         20.465 km         3         82.01         20.12         3.0         128.0         130.0         2015.67         2015.67         0.00         No           20.465 km         21.340 | 9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         81.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         1         74.51         84.51         2012         3.0         93.5         120.0         2023.83         1.683.680         2023         2023.83         0.00         No           11.7175 km         20.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1.743.79         2024         2024.66         0.00         No           20.465 km         1         11.899         2012         3.0         128.0  
      130.0         2015.67         2015.67         0.00         No           21.340 km </td <td>9.099 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         61.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         61.3         120.0         2027.89         2.435.165         2027         2027.89         0.00         No           15.170 km         17.175 km         84.51         2012         3.0         93.5         120.0         2023.83         1.636,660         2023         2023.83         0.00         No           15.170 km         17.175 km         3.84.51         2012         3.0         91.0         120.0         2024.66         1.747.32         2024         2024.66         0.00         No           17.175 km         2.0465 km         3         82.01         2012         3.0         128.0         130.0         2015.67         2015.67         0.00         No           20.465 km         21.340 km         3</td> <td>9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2034.28         3.841.079         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.435.165         2027         2027.89         0.00         No           15.170 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.685.680         2023         2023.83         0.00         No           17.175 km         2.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1.783.976         2024         2024.66         0.00         No           20.465 km         1.340 km         1         118.99         2012         3.0         128.0         130.0         2015.67         0.00         No           20.465 km         1.340 km         3<!--</td--></td> | 9.099 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         61.3         120.0         2027.89         2.371.846         2027         2027.89         0.00         No           10.984 km         15.170 km         3         72.33         2012         3.0         61.3         120.0         2027.89         2.435.165         2027         2027.89         0.00         No           15.170 km         17.175 km         84.51         2012         3.0         93.5         120.0         2023.83         1.636,660         2023         2023.83         0.00         No           15.170 km         17.175 km         3.84.51         2012         3.0         91.0         120.0         2024.66         1.747.32         2024         2024.66         0.00         No           17.175 km         2.0465 km         3         82.01         2012         3.0         128.0         130.0         2015.67         2015.67         0.00         No           20.465 km         21.340 km         3 | 9.089 km         10.984 km         1         53.16         2012         3.0         62.2         120.0         2034.28         3.741.202         2034         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2034.28         3.841.079         2034.28         0.00         No           10.984 km         15.170 km         1         72.33         2012         3.0         81.3         120.0         2027.89         2.435.165         2027         2027.89         0.00         No           15.170 km         17.175 km         3         84.51         2012         3.0         93.5         120.0         2023.83         1.685.680         2023         2023.83         0.00         No           17.175 km         2.465 km         3         82.01         2012         3.0         91.0         120.0         2024.66         1.783.976         2024         2024.66         0.00         No           20.465 km         1.340 km         1         118.99         2012         3.0         128.0         130.0         2015.67         0.00         No           20.465 km         1.340 km         3 </td |

# **Bowen Basin SREIS**

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm 6.Rehab\_Cost 8/01/2014

#### Maintenance Impacts

	Section	Details			
ardn					
		Chainage End	Direction	Potential Impact On Maintenance	
ROAL				r eternar impaet en maintenarioe	
4 400	0.0001	0.5001		0.05%	
1 196 2 196		0.530 km 0.530 km	1	0.05%	
3 196		0.875 km	3	0.21%	
4 196		0.875 km	3	0.30%	
5 196		0.950 km	1	0.25%	
6 196		0.950 km	3	0.04%	
7 196		1.329 km	1	0.25%	
8 196		1.329 km	3	0.04%	
9 196		1.580 km	1	0.25%	
10 196		1.580 km	3	0.04%	
11 196 12 196		3.226 km 3.226 km	1	0.56%	G
13 196		4.030 km	1	0.10%	
14 196		4.030 km	3	0.00%	
15 196		12.670 km	1	0.00%	
16 196		12.670 km	3	0.00%	
17 196		13.860 km	1	0.00%	
18 196		13.860 km	3	0.00%	
19 196		20.710 km	1	0.00%	
20 196		20.710 km	3	0.00%	
21 196 22 196		24.890 km 24.890 km	1	0.00%	
22 196 23 196		24.890 km 28.770 km	3	0.00%	
24 196			3	0.00%	
25 196		30.357 km	1	0.00%	
26 196		30.357 km	3	0.00%	
27 196	i 30.357 km	33.944 km	1	0.00%	
28 196		33.944 km	3	0.00%	
29 196		35.560 km	1	0.00%	
30 196 31 469		35.560 km	3	0.00%	
32 469		0.065 km 0.065 km	3	13.91%	
33 469		1.119 km	1	0.00%	
34 469		1.119 km	3	0.00%	
35 469	1.119 km	6.724 km	1	0.00%	
36 469		6.724 km	3	0.00%	
37 469		9.089 km	1	0.00%	
38 469 39 469		9.089 km	3	0.00%	
40 469		10.984 km 10.984 km	3	0.00%	
40 403		15.170 km	1	0.00%	
42 469		15.170 km	3	0.00%	
43 469		17.175 km	1	0.00%	
44 469		17.175 km	3	0.00%	
45 469			1	0.00%	SAMPLE road sections) 393 assessed road sections
46 469			3	0.00%	
47 469 48 469			1	0.00%	
48 469 469			1	0.00%	
50 469			3	0.00%	
51 469			1	0.00%	
52 469		40.680 km	3	0.00%	
53 469		48.390 km	1	0.00%	
54 469			3	0.00%	
55 469		49.590 km	1 3	0.00%	
56 469 57 469			3	0.00%	
57 469 58 469		59.160 km	3	0.00%	
59 469		77.170 km	1	0.00%	
60 469		77.170 km	3	0.00%	
61 469		89.030 km	1	0.00%	
62 469	77.170 km	89.030 km	3	0.00%	
63 469			1	0.00%	
64 469	89.030 km	89.570 km	3	0.00%	
				r	

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm 7.Maint\_% 8/01/2014

#### Calculation Sheet Cumulative Project ESAs

Cardno ID#	TMR ROAD	Chainage Start	Chainage End	Direction	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
1	196	0.000 km		1	3	25	95	429	527		800	975	1,073	1,200	1,337	1,413		1,632	1,715	1,785	1,874	1,918
2	196	0.000 km		3	18	144	540	2,429	2,987		4,535	5,524	6,082	6,802	7,576	8,008		9,249	9,717	10,113	10,617	10,869
3	196 196	0.530 km		1	3	25	95 540	429	527		800	975	1,073	1,200	1,337	1,413		1,632 9,249	1,715	1,785	1,874	1,918
4	196	0.530 km 0.875 km		3	18	144 198	1.044	2,429 2,501	2,987		4,535 4,625	5,524 5,272	6,082 5,884	6,802 6,460	7,576 6,802	8,008 7,090		9,249	9,717 8,349	10,113 8,493	10,617 8,637	10,869 8,691
6	196	0.875 km		3	36	35	1,044	2,501	600		4,625	930	1,038	1,140	1,200	1,090		1,423	1,473	1,499	1,524	1,534
7	196	0.950 km		1	36	198	1.044	2,501	3.401		4,625	5,272	5.884	6,460	6.802	7.090		8.062	8,349	8,493	8.637	8.691
8	196	0.950 km		3	6	35	184	441	600		816	930	1,038	1,140	1,200	1,251		1,423	1,473	1,499	1,524	1,534
9	196	1.329 km		1	36	198	1.044	2,501	3.401		4,625	5.272	5,884	6,460	6.802	7.090		8,062	8,349	8,493	8,637	8,691
10	196	1.329 km	1.580 km	3	6	35	184	441	600	702	816	930	1,038	1,140	1,200	1,251	1,331	1,423	1,473	1,499	1,524	1,534
11	196	1.580 km	3.226 km	1	36	198	1,044	2,501	3,401		4,625	5,272	5,884	6,460	6,802	7,090		8,062	8,349	8,493	8,637	8,691
12	196	1.580 km		3	6	35	184	441	600		816	930	1,038	1,140	1,200	1,251		1,423	1,473	1,499	1,524	1,534
13	196	3.226 km		1	36	198	1,044	2,501	3,401		4,625	5,272	5,884	6,460	6,802	7,090		8,062	8,349	8,493	8,637	8,691
14	196	3.226 km		3	6	35	184	441	600		816	930	1,038	1,140	1,200			1,423	1,473	1,499	1,524	1,534
15 16	196 196	4.031 km 4.031 km		1 3	0	0	0	0	0		0	0	0	0	0			0	0	0	0	0
10	196	12.670 km		1	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0
18	196	12.670 km		3	0	0	0	0	0		0	0	0	0	0	0		Ö		0	0	0
19	196	13.860 km		1	0	0	0	0	0		0	0	0	0	0	0	0	0		0	0	0
20	196	13.860 km	20.710 km	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	196	20.710 km		1	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
22	196	20.710 km		3	0	0	0	0	0	•	0	0		0	0			0	0	0	0	0
23 24	196 196	24.890 km		1 3	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0
24	196	24.890 km 28.770 km		1	0	0	0	0	0		0	0	0	0	0	-		0	0	0	0	0
26	196	28.770 km		3	0	0	0	0	0		0	0		0	0			0	0	0	0	0
27	196	30.357 km		1	0	0	0	0	0		0	0			0			0	0	0	0	0
28	196	30.357 km		3	0	0	0	0	0		0	0		0				0	0	0	0	0
29	196	33.944 km	35.560 km	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	196	33.944 km		3	0	0	0	0	0		0	0	0		0	0	•	0	0	0	0	0
31	469	0.000 km		1	0	0	0	0	0		0	0	0		601	4,378		12,339	16,246	17,753	20,370	22,644
32 33	469 469	0.000 km		3	0	0	0	0	0		0	0		1,211	4,681	34,072		95,967	126,336	138,079	158,464	176,181
34	469	0.065 km 0.065 km		3	0	0	0	0	0		0	0		- 1	0			0	0	0	0	0
35	469	1.119 km		1	0	0	0	0			0	Ő		0	0			0	0	0	0	0
36	469	1.119 km		3	0	0	0	0			0	0		0	0	0		0	0	0	0	0
37	469	6.724 km		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	469	6.724 km		3	0	0	0	0	0		0		0	0	0	0	-	0	0	0	0	0
39	469		10.984 km	1	0	0	0	0	0		0	0	0		0			0	0	0	0	0
40	469 469	9.089 km 10.984 km	10.984 km	3	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0
41	469	10.984 km		3	0	0	0	0	0			0	0	0	0	0		0	0	0	0	0
42	469	15.170 km		1	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0
44	469	15.170 km		3	0	0	0	0	Ő		0	0	0	0	0	0		0	0	0	0	0
45	469	17.175 km		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	469	17.175 km		3	0	0	0	0	0		0	0	0		0	0		0	0	0	0	0
47	469	20.465 km		1	0	0	0				0	0	0	0	0	0		0	0	0	0	0
48	469	20.465 km		3	0	0	0		0		0	0	0	0	0	0		0	0	0	0	0
49	469 469	21.340 km 21.340 km		3	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0
51	469	27.180 km		1	0	0	0	0	0	•	0	0	0	0	0	0		0	0	0	0	0
52	469	27.180 km		3	0	- O	Ő	0	0		0	0	0	0	0	0		0	0	0	0	0
53	469	40.680 km		1	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0
54	469	40.680 km		3	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0
55	469	48.390 km		1	0	0	0	0	0		0	0	0		0	0		0	0	0	0	0
56	469	48.390 km		3	0	0	0	0	0	•	0	0	0	-	0	0		0	0	0	0	0
57 58	469 469	49.590 km 49.590 km		1 3	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0
59	469	59.160 km		3	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0
60	469	59.160 km		3	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
61	469	77.170 km		1	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0
62	469	77.170 km		3	0	0	0	0	0	-	0	0	0	0	0	0		0	0	0	0	0
63	469	89.030 km		1	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0
64	469	89.030 km	89.570 km	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

#### Pavement Impact Assessment

-

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm cuml\_DEV 8/01/2014

#### Calculation Sheet Cumulative Project ESAs

Cardno ID# 1	TMR ROAD 196	Chainage Start 0.000 km	Chainage End	Direction	2033	2034	2035	2036	2037 1.997	2038	2039	2040	2041 <b>2.010</b>	2042	2043	2044 <b>2.010</b>	2045	2046	2047 <b>2.010</b>	2048	2049	2050 2.010
2	196	0.000 km		3	11,067	11,193	11,211	11,265	11,319			11,391	11,391	11,391	11,391	11,391	11,391	11,391	11,391	11,391	11,391	11,391
3	196	0.530 km		1	1,953	1,975	1,978	1,988	1,997	2,001	2,007	2,010	2,010	2,010	2,010	2,010		2,010	2,010	2,010	2.010	2,010
4	196	0.530 km		3	11,067	11,193	11,211	11,265	11,319			11,391	11,391	11,391	11,391	11,391		11,391	11,391	11,391	11,391	11,391
5	196	0.875 km	0.950 km	1	8,763	8,781	8,817	8,817	8,817	8,817	8,817	8,817	8,817	8,817	8,817	8,817	8,817	8,817	8,817	8,817	8,817	8,817
6	196	0.875 km	0.950 km	3	1,546	1,550	1,556	1,556	1,556	1,556	1,556	1,556	1,556	1,556	1,556	1,556	1,556	1,556	1,556	1,556	1,556	1,556
7	196	0.950 km		1	8,763	8,781	8,817	8,817	8,817			8,817	8,817	8,817	8,817	8,817		8,817	8,817	8,817	8,817	8,817
8	196		1.329 km	3	1,546	1,550	1,556	1,556	1,556	1,556		1,556	1,556	1,556	1,556	1,556		1,556	1,556	1,556	1,556	1,556
9	196		1.580 km	1	8,763	8,781	8,817	8,817	8,817	8,817		8,817	8,817	8,817	8,817	8,817		8,817	8,817	8,817	8,817	8,817
10	196		1.580 km	3	1,546	1,550	1,556	1,556	1,556	1,556		1,556	1,556	1,556	1,556	1,556		1,556	1,556	1,556	1,556	1,556
11	196	1.580 km		1	8,763	8,781	8,817	8,817	8,817			8,817	8,817	8,817	8,817	8,817		8,817	8,817	8,817	8,817	8,817
12	196 196	1.580 km 3.226 km		3	1,546	1,550 8,781	1,556 8.817	1,556 8,817	1,556			1,556 8,817	1,556 8,817	1,556 8.817	1,556 8,817	1,556 8,817		1,556 8.817	1,556 8.817	1,556 8,817	1,556 8.817	1,556 8.817
13	196	3.226 km		3	1,546	1,550	1,556	1,556	1,556			1,556	1,556	1,556	1,556	1,556		1,556	1,556	1,556	1,556	1,556
15	196	4.031 km		1	1,540	0	1,550	1,550	1,550	0		0	0		0			1,550		1,550	1,550	1,550
16	196	4.031 km		3	0	0	0	0	0			0	0		0			0		0	0	0
17	196	12.670 km		1	0	0	0	0	0	0		0	0	0	0	0		Ó		0	0	0
18	196	12.670 km	13.860 km	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	196	13.860 km	20.710 km	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	196	13.860 km		3	0	0	0	0	0	0		0	0	0	0	0		0		0	0	0
21	196	20.710 km		1	0	0	0	0	0			0	0		0	0		0		0	0	0
22	196	20.710 km		3	0	0	0	0	0			0	0	0	0	0		0	0	0	0	0
23 24	196 196	24.890 km 24.890 km		1 3	0	0	0	0	0			0	0		0			0	0	0	0	0
24	196	24.690 km		3	0	0	0	0	0	0		0			0			0		0	0	0
25	196	28.770 km		3	0	0	0	0	0	0		0			0		-	0	0	0	0	0
27	196	30.357 km		1	0	0	0	0	0	-		0			0			0	0	0	0	0
28	196	30.357 km		3	0	0	0	0	0	0		0			0			0	0	0	0	0
29	196	33.944 km	35.560 km	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	196	33.944 km	35.560 km	3	0	0	0	0	0	0		0	0	0	0	0	•	0	0	0	0	0
31	469	0.000 km		1	24,473	25,586	25,707	26,229	26,720			27,369	27,369		27,369	27,369		27,369	27,369	27,369	27,369	27,369
32	469	0.000 km		3	190,429	199,097	200,036	204,105	207,928			212,990			212,990	212,990		212,990		212,990	212,990	212,990
33	469	0.065 km		1	0	0	0	0	0			0			0	0		0		0	0	0
34	469	0.065 km		3	0	0	0	0	0			0	0	0	0	0		0	0	0	0	0
35 36	469 469	1.119 km 1.119 km		3	0	0	0	0	0	0		0		0	0	0		0	0	0	0	0
36	469	6.724 km		1	0	0	0	0	0	0		0	0	0	0	0		0	0	0	0	0
38	469	6.724 km		3	0	0	0	0	0			Ő	0	0	0	0		0	0	0	0	0
39	469	9.089 km		1	0	0	0	0	0			0	0	-	0	0	-	0	0	0	0	0
40	469	9.089 km		3	0	0	0	0	0			0	0	0	0	0		0	0	0	0	0
41	469	10.984 km	15.170 km	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	469	10.984 km		3	0	0	0	0	0			0	0	0	0	0	-	0	0	0	0	0
43	469	15.170 km		1	0	0	0	0	0			0	0	0	0	0		0		0	0	0
44	469	15.170 km		3	0	0	0	0	0			0	0	0	0	0		0	0	0	0	0
45 46	469 469	17.175 km		1 3	0	0	0	0	0			0	0	0	0	0		0	0	0	0	0
40	469	17.175 km 20.465 km		1	0	0	0	0	0			0	0	0	0	0	-	0	0	0	0	0
48	469	20.465 km		3	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0
49	469	21.340 km		1	0	0	Ő		0			0	0	0	0	0		0	-	0	0	0
50	469	21.340 km		3	0	0	0	0	0			0	0	0	0	0		0	0	0	0	0
51	469	27.180 km	40.680 km	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	469	27.180 km	40.680 km	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	469	40.680 km		1	0	0	0	0	0	-	-	0	0	0	0	0		0	-	0	0	0
54	469	40.680 km		3	0	0	0	0	0	-		0	0	0	0	0		0	0	0	0	0
55	469	48.390 km		1	0	0	0	0	0		-	0	0	0	0	0		0	0	0	0	0
56	469	48.390 km		3	0	0	0	0	0			0	0		0	0		0	0	0	0	0
57 58	469 469	49.590 km 49.590 km		1	0	0	0	0	0			0	0	0	0	0		0		0	0	0
58	469	49.590 km 59.160 km		3	0	0	0	0	0			0	0		0	0		0	0	0	0	0
60	469	59.160 km		3	0	0	0	0	0	0		0	0	0	0	0		0	0	0	0	
61	469	77.170 km		1	0	0	0	0	0	0		0	0	0	0	0		0	-	0	0	0
62	469	77.170 km		3	0	0	0	0	0			0	0	0	0	0	0	0		0	0	0
63	469	89.030 km		1	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
64	469	89.030 km	89.570 km	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

#### Pavement Impact Assessment

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm cuml\_DEV 8/01/2014

#### Calculation Sheet Cumulative Project ESAs

Cardno	TMR	Chainage		Direction	2051	2052	2053	2054	2055	2056
ID#	ROAD	Start	End							
1 2	196 196	0.000 km 0.000 km		1 3	2,010	2,010 11,391	2,010	2,010	2,010	2,010 11.391
3	196	0.530 km		1	2,010	2,010	2,010	2,010	2,010	2,010
4	196	0.530 km	0.875 km	3	11,391	11,391	11,391	11,391	11,391	11,391
5	196	0.875 km		1	8,817	8,817	8,817	8,817	8,817	8,817
6	196 196	0.875 km 0.950 km		3	1,556 8,817	1,556 8,817	1,556 8,817	1,556 8,817	1,556 8,817	1,556
8	196	0.950 km		3	1,556	1,556	1,556	1,556	1,556	0,017
9	196	1.329 km		1	8,817	8,817	8,817	8,817	8.817	8.817
10	196	1.329 km		3	1,556	1,556	1,556	1,556	1,556	1,556
11	196	1.580 km	3.226 km	1	8,817	8,817	8,817	8,817	8,817	8,817
12	196	1.580 km		3	1,556	1,556	1,556	1,556	1,556	1,556
13 14	196	3.226 km		1 3	8,817	8,817 1,556	8,817 1,556	8,817 1,556	8,817	8,817
14	196 196	3.226 km 4.031 km		3	1,556 0	1,556		1,556	0000,1	1,000
16	196	4.031 km		3	0	0		0	0	0
17	196	12.670 km		1	0	0		0	0	0
18	196	12.670 km		3	0	0		0	0	0
19	196	13.860 km		1	0	0		0	0	0
20 21	196 196	13.860 km		3	0	0		0	0	0
21	196	20.710 km 20.710 km		3	0	0		0	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0
23	196	24.890 km		1	0	0		0	0	0
24	196	24.890 km		3	0	0		0	0	0
25	196	28.770 km		1	0	0		0	0	0
26	196	28.770 km		3	0	0		0	0	0
27 28	196 196	30.357 km 30.357 km		1 3	0	0		0	0	0
20	196	33.944 km		1	0	0		0	0	0
30	196	33.944 km		3	0	0		0	0	0
31	469	0.000 km		1	27,369	27,369		27,369	27,369	27,369
32	469	0.000 km		3	212,990	212,990	212,990	212,990	212,990	212,990
33	469	0.065 km		1	0	0		0	0	0
34	469	0.065 km		3	0	0		0	0	0
35 36	469 469	1.119 km 1.119 km		3	0	0		0	0	0
37	469	6.724 km		1	0	0		0	0	0
38	469	6.724 km		3	0	0		0	0	0
39	469	9.089 km		1	0	0		0	0	0
40	469	9.089 km		3	0	0	0	0	0	0
41	469	10.984 km		1	0	0		0	0	0
42	469	10.984 km		3	0	0		0	0	0
43 44	469 469	15.170 km 15.170 km		1 3	0	0		0	0	0
44	469	17.175 km		1	0	0		0	0	
46	469	17.175 km		3	0	0			Ő	0
47	469	20.465 km	21.340 km	1	0	0		0	0	0
48	469	20.465 km		3	0	0		0	0	
49	469	21.340 km		1	0	0			0	
50	469	21.340 km		3	0	0			0	
51 52	469 469	27.180 km 27.180 km		1 3	0	0		0	0	
52	469	40.680 km		1	0	0		0	0	
54	469	40.680 km		3	0	0		0	0	
55	469	48.390 km		1	0	0		0	0	-
56	469	48.390 km	49.590 km	3	0	0		0	0	0
57	469	49.590 km		1	0			0	0	
58	469	49.590 km		3	0	0		0	0	
	469	59.160 km		1	0	0		0	0	
59	469	59.160 km		3	0	0		0	0	
60		77 170 km						U	U	0
60 61	469	77.170 km							0	
60		77.170 km 77.170 km 89.030 km	89.030 km	3	0	0	0	0	0	0

# Bowen Basin SREIS

#### Pavement Impact Assessment

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm cuml\_DEV 8/01/2014

# Calculation Sheet

Cardno ID#	TMR	Chainage	Chainage End	Direction	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
1	196	0.000 km	0.530 km	1	616,230	634,717	653,204	671,691	690,177	708,664	727,151	745,638	764,125	782,612	801,099	819,586	838,073	856,560	875,046	893,533	912,020	930,507
2	196	0.000 km	0.530 km	3	877,737	904,069	930,401	956,733	983,065	1,009,397	1,035,729	1,062,061	1,088,393	1,114,726	1,141,058	1,167,390	1,193,722	1,220,054	1,246,386	1,272,718	1,299,050	1,325,382
3	196	0.530 km		1	509,845	525,140	540,435	555,731	571,026	586,321	601,617	616,912	632,208	647,503	662,798	678,094	693,389	708,684	723,980	739,275	754,570	769,866
4	196	0.530 km	0.875 km	3	581,776	599,229	616,683	634,136	651,589	669,042	686,496	703,949	721,402	738,856	756,309	773,762	791,215	808,669	826,122	843,575	861,029	878,482
5	196 196	0.875 km 0.875 km	0.950 km 0.950 km	1 3	509,845 581,776	525,140 599,229	540,435 616,683	555,731 634,136	571,026 651,589	586,321 669.042	601,617 686,496	616,912 703,949	632,208 721,402	647,503 738,856	662,798 756,309	678,094 773,762	693,389 791,215	708,684 808,669	723,980 826,122	739,275 843,575	754,570 861.029	769,866 878,482
7	196	0.950 km	1.329 km	1	509,845		540,435	555,731	571,026	586,321	601,617	616,912	632,208	647,503	662,798	678,094	693,389	708,684	723,980	739,275	754,570	769,866
8	196	0.950 km	1.329 km	3	581,776	599.229	616.683	634,136	651,589	669.042	686,496	703,949	721,402	738.856	756.309	773,762	791,215	808,669	826,122	843.575	861.029	878,482
9	196	1.329 km	1.580 km	1	509,845	525,140	540,435	555,731	571,026	586,321	601,617	616,912	632,208	647,503	662,798	678,094	693,389	708,684	723,980	739,275	754,570	769,866
10	196	1.329 km	1.580 km	3	581,776	599,229	616,683	634,136	651,589	669,042	686,496	703,949	721,402	738,856	756,309	773,762	791,215	808,669	826,122	843,575	861,029	878,482
11	196	1.580 km	3.226 km	1	167,574	172,602	177,629	182,656	187,683	192,711	197,738	202,765	207,792	212,820	217,847	222,874	227,901	232,928	237,956	242,983	248,010	253,037
12 13	196 196	1.580 km	3.226 km	3	169,922	175,019	180,117	185,215	190,312	195,410	200,508	205,605	210,703	215,801	220,898	225,996 223,350	231,094	236,191	241,289	246,387	251,484	256,582
13	196	3.226 km 3.226 km	4.030 km 4.030 km	3	167,932 131,569	172,970 135,516	178,008 139,463	183,046 143,410	188,084 147,357	193,122 151,304	198,160 155,251	203,198 159,198	208,236	213,274 167,093	218,312	174,987	228,388 178,934	233,426	238,464 186,828	243,502 190,775	248,540 194,722	253,578 198,669
15	196	4.031 km	12.670 km	1	183,210	188,706	194,203	199.699	205,195	210,691	216,188	221,684	227,180	232.677	238,173	243,669	249,165	254.662	260,158	265,654	271.151	276.647
16	196	4.031 km	12.670 km	3	177,083	182,396	187,708	193,021	198,333	203,645	208,958	214,270	219,583	224,895	230,208	235,520	240,833	246,145	251,458	256,770	262,083	267,395
17	196	12.670 km	13.860 km	1	183,210	188,706	194,203	199,699	205,195	210,691	216,188	221,684	227,180	232,677	238,173	243,669	249,165	254,662	260,158	265,654	271,151	276,647
18	196		13.860 km	3	177,083	182,396	187,708	193,021	198,333	203,645	208,958	214,270	219,583	224,895	230,208	235,520	240,833	246,145	251,458	256,770	262,083	267,395
19	196		20.710 km	1	183,210	188,706	194,203	199,699	205,195	210,691	216,188	221,684	227,180	232,677	238,173	243,669	249,165	254,662	260,158	265,654	271,151	276,647
20 21	196 196	20.710 km	20.710 km	3	177,083 183,210	182,396 188,706	187,708 194,203	193,021 199,699	198,333 205,195	203,645 210,691	208,958 216,188	214,270 221,684	219,583 227,180	224,895 232,677	230,208 238,173	235,520 243,669	240,833 249,165	246,145 254,662	251,458 260,158	256,770 265,654	262,083 271,151	267,395 276,647
21	196	20.710 km		3	177,083	182,396	187,708	193,039	198,333	203,645	208,958	214,270	219,583	224,895	230,208	235,520	249,103	246,145	251,458	256,770	262,083	267,395
23	196	24.890 km		1	183,210	188,706	194,203	199,699	205,195	210,691	216,188	221,684	227,180	232,677	238,173	243,669	249,165	254,662	260,158	265,654	271,151	276,647
24	196	24.890 km		3	177,083	182,396	187,708	193,021	198,333	203,645	208,958	214,270	219,583	224,895	230,208	235,520	240,833	246,145	251,458	256,770	262,083	267,395
25	196	28.770 km		1	183,210	188,706	194,203	199,699	205,195	210,691	216,188	221,684	227,180	232,677	238,173	243,669	249,165	254,662	260,158	265,654	271,151	276,647
26	196	28.770 km		3	177,083	182,396	187,708	193,021	198,333	203,645	208,958	214,270	219,583	224,895	230,208	235,520	240,833	246,145	251,458	256,770	262,083	267,395
27	196	30.357 km		1	186,910	192,517	198,125	203,732	209,339	214,946	220,554	226,161	231,768	237,376	242,983	248,590	254,198	259,805	265,412	271,019	276,627	282,234
28 29	196 196	30.357 km 33.944 km	33.944 km	3	177,123 152.934	182,437 157,522	187,750 162,110	193,064 166,698	198,378 171,286	203,691 175,874	209,005	214,319 185,050	219,632	224,946 194,226	230,260 198,814	235,573 203,402	240,887	246,201 212,578	251,514 217,166	256,828 221,754	262,142 226,342	267,455 230,930
30	196		35.560 km	3	152,934	161,292	165,989	170,687	171,200	175,874	184,781	189,478	194,176	194,220	203,572	203,402	207,990	212,576	217,100	221,754	220,342	230,930
31	469	0.000 km		1	215,913	222,391	228,868	235,345	241,823	248,300	254,778	261,255	267,732	274,210	280,687	287,165	293,642	300,119	306,597	313,074	319,552	326,029
32	469	0.000 km	0.065 km	3	186,234	191,821	197,408	202,995	208,582	214,169	219,756	225,343	230,930	236,517	242,104	247,691	253,278	258,865	264,452	270,039	275,626	281,213
33	469	0.065 km	1.119 km	1	215,913	222,391	228,868	235,345	241,823	248,300	254,778	261,255	267,732	274,210	280,687	287,165	293,642	300,119	306,597	313,074	319,552	326,029
34	469	0.065 km	1.119 km	3	186,234	191,821	197,408	202,995	208,582	214,169	219,756	225,343	230,930	236,517	242,104	247,691	253,278	258,865	264,452	270,039	275,626	281,213
35	469	1.119 km	6.724 km	1	143,067	147,359	151,651	155,943	160,235	164,527	168,819	173,111	177,403	181,695	185,987	190,279	194,571	198,863	203,155	207,447	211,739	216,031
36 37	469 469	1.119 km 6.724 km	6.724 km 9.089 km	3	146,886 143,067	151,293 147,359	155,699 151,651	160,106 155,943	164,513 160,235	168,919 164,527	173,326 168,819	177,732	182,139 177,403	186,545 181,695	190,952 185,987	195,359 190,279	199,765 194,571	204,172 198,863	208,578 203,155	212,985 207,447	217,392 211,739	221,798 216,031
38	469	6.724 km	9.089 km	3	146,886	151,293	155,699	160,106	164,513	168,919	173,326	177,732	182,139	186,545	190,952	195,359	199,765	204,172	208,578	212,985	217,392	221,798
39	469	9.089 km	10.984 km	1	143,067	147,359	151,651	155,943	160,235	164,527	168,819	173,111	177,403	181,695	185,987	190,279	194,571	198,863	203,155	207,447	211,739	216,031
40	469	9.089 km	10.984 km	3	146,886	151,293	155,699	160,106	164,513	168,919	173,326	177,732	182,139	186,545	190,952	195,359	199,765	204,172	208,578	212,985	217,392	221,798
41	469		15.170 km	1	143,067	147,359	151,651	155,943	160,235	164,527	168,819	173,111	177,403	181,695	185,987	190,279	194,571	198,863	203,155	207,447	211,739	216,031
42	469		15.170 km	3	146,886	151,293	155,699	160,106	164,513	168,919	173,326	177,732	182,139	186,545	190,952	195,359	199,765	204,172	208,578	212,985	217,392	221,798
43 44	469 469	15.170 km	17.175 km 17.175 km	1 3	143,067 146,886	147,359 151,293	151,651 155,699	155,943 160,106	160,235 164,513	164,527 168,919	168,819 173,326	173,111 177,732	177,403	181,695 186,545	185,987 190.952	190,279 195,359	194,571 199,765	198,863 204,172	203,155 208,578	207,447 212,985	211,739 217,392	216,031 221,798
44	469	17.175 km		3	140,000	147,359	155,699	155,943	160,235	164,527	168,819	173,111	177,403	181,695	185,987	195,359	199,765	198,863	208,578	212,965	217,392	216,031
46	469		20.465 km	3	146,886	151,293	155,699	160,106	164,513	168,919	173,326	177,732	182,139	186,545	190,952	195,359	199,765	204,172	208,578	212,985	217,392	221,798
47	469	20.465 km		1	143,067	147,359	151,651	155,943	160,235	164,527	168,819	173,111	177,403	181,695	185,987	190,279	194,571	198,863	203,155	207,447	211,739	216,031
48	469		21.340 km	3	146,886	151,293	155,699	160,106	164,513	168,919	173,326	177,732	182,139	186,545	190,952	195,359	199,765	204,172	208,578	212,985	217,392	221,798
49	469	21.340 km		1	20,251	20,858	21,466	22,073	22,681	23,288	23,896	24,503	25,111	25,718	26,326	26,933	27,541	28,148	28,756	29,363	29,971	30,578
50	469 469	21.340 km		3	25,661	26,431	27,201 5,482	27,971	28,741	29,511	30,280	31,050	31,820	32,590	33,360	34,130	34,899	35,669	36,439	37,209	37,979	38,749
51 52	469	27.180 km 27.180 km		3	5,172 8,792	5,327 9,056	9,320	5,638 9,584	5,793 9,848	5,948 10,111	6,103 10,375	6,258 10,639	6,413 10,903	6,569 11,166	6,724 11,430	6,879 11,694	7,034	7,189	7,344 12,485	7,499	7,655	7,810
53	469		48.390 km	1	5,172		5,482	5,638	5,793	5,948	6,103	6,258	6,413	6,569	6,724	6.879	7.034	7,189	7.344	7,499	7,655	7,810
54	469	40.680 km		3	8,792	9,056	9,320	9,584	9,848	10,111	10,375	10,639	10,903	11,166	11,430	11,694	11,958	12,222	12,485	12,749	13,013	13,277
55	469	48.390 km	49.590 km	1	5,172	5,327	5,482	5,638	5,793	5,948	6,103	6,258	6,413	6,569	6,724	6,879	7,034	7,189	7,344	7,499	7,655	7,810
56	469	48.390 km		3	8,792	9,056	9,320	9,584	9,848	10,111	10,375	10,639	10,903	11,166	11,430	11,694	11,958	12,222	12,485	12,749	13,013	13,277
57	469	49.590 km		1	5,172	5,327	5,482	5,638	5,793	5,948	6,103	6,258	6,413	6,569	6,724	6,879	7,034	7,189	7,344	7,499	7,655	7,810
58 59	469 469	49.590 km 59.160 km		3	8,792 5,172	9,056 5,327	9,320 5,482	9,584 5,638	9,848 5,793	10,111 5,948	10,375 6,103	10,639 6,258	10,903 6,413	11,166 6,569	11,430 6,724	11,694 6,879	11,958 7,034	12,222 7,189	12,485 7,344	12,749 7,499	13,013 7,655	13,277 7,810
60	469	59.160 km		3	8,792	9,056	9,320	9,584	9,848	10,111	10,375	10,639	10,903	11.166	11,430	11.694	11,958	12,222	12,485	12,749	13,013	13,277
61	469	77.170 km		1	5,172	5,327	5,482	5,638	5,793	5,948	6,103	6,258	6,413	6,569	6,724	6.879	7,034	7,189	7,344	7,499	7,655	7,810
62	469	77.170 km		3	8,792	9,056	9,320	9,584	9,848	10,111	10,375	10,639	10,903	11,166	11,430	11,694	11,958	12,222	12,485	12,749	13,013	13,277
63	469	89.030 km	89.570 km	1	5,172	5,327	5,482	5,638	5,793	5,948	6,103	6,258	6,413	6,569	6,724	6,879	7,034	7,189	7,344	7,499	7,655	7,810
64	469	89.030 km	89.570 km	3	8,792	9,056	9,320	9,584	9,848	10,111	10,375	10,639	10,903	11,166	11,430	11,694	11,958	12,222	12,485	12,749	13,013	13,277

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm BKG 8/01/2014

# Calculation Sheet

Cardno ID#	TMR ROAD	Chainage Start	Chainage End	Direction	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
1	196	0.000 km	0.530 km	1	948,994	967,481	985,968	1,004,455	1,022,942	1,041,428	1,059,915	1,078,402	1,096,889	1,115,376	1,133,863	1,152,350	1,170,837	1,189,324	1,207,811	1,226,297	1,244,784	1,263,271
2	196	0.000 km	0.530 km	3	1,351,714	1,378,047	1,404,379	1,430,711	1,457,043	1,483,375	1,509,707	1,536,039	1,562,371	1,588,703	1,615,035	1,641,368	1,667,700	1,694,032	1,720,364	1,746,696	1,773,028	1,799,360
3	196 196	0.530 km 0.530 km	0.875 km	1	785,161 895,935	800,456 913,388	815,752 930,842	831,047 948,295	846,342 965,748	861,638 983,202	876,933 1,000,655	892,228 1,018,108	907,524	922,819 1,053,015	938,114	953,410 1,087,921	968,705 1,105,375	984,000 1,122,828	999,296 1,140,281	1,014,591	1,029,886	1,045,182 1,192,641
5	196	0.875 km	0.875 km 0.950 km	3	785,161	800,456	815,752	831,047	846,342	861,638	876,933	892,228	1,035,561 907,524	922,819	1,070,468 938,114	953,410	968,705	984.000	999,296	1,157,734 1,014,591	1,029,886	1,192,641
6	196	0.875 km	0.950 km	3	895,935	913,388	930,842	948,295	965,748	983,202	1,000,655	1,018,108	1,035,561	1,053,015	1,070,468	1,087,921	1,105,375	1,122,828	1,140,281	1,157,734	1,175,188	1,192,641
7	196	0.950 km	1.329 km	1	785,161	800,456	815,752	831,047	846,342	861,638	876,933	892,228	907,524	922,819	938,114	953,410	968,705	984,000	999,296	1,014,591	1,029,886	1,045,182
8	196	0.950 km	1.329 km	3	895,935	913,388	930,842	948,295	965,748	983,202	1,000,655	1,018,108	1,035,561	1,053,015	1,070,468	1,087,921	1,105,375	1,122,828	1,140,281	1,157,734	1,175,188	1,192,641
9	196	1.329 km	1.580 km	1	785,161	800,456	815,752	831,047	846,342	861,638	876,933	892,228	907,524	922,819	938,114	953,410	968,705	984,000	999,296	1,014,591	1,029,886	1,045,182
10	196	1.329 km	1.580 km	3	895,935	913,388	930,842	948,295	965,748	983,202	1,000,655	1,018,108	1,035,561	1,053,015	1,070,468	1,087,921	1,105,375	1,122,828	1,140,281	1,157,734	1,175,188	1,192,641
11	196 196	1.580 km 1.580 km	3.226 km 3.226 km	1	258,065 261,679	263,092 266,777	268,119 271,875	273,146 276,972	278,174 282,070	283,201 287,168	288,228 292,265	293,255 297,363	298,282 302,461	303,310 307,558	308,337 312,656	313,364 317,754	318,391 322,851	323,419 327,949	328,446 333,047	333,473 338,144	338,500 343,242	343,528 348,340
13	196	3.226 km	4.030 km	1	258,616	263,654	268,692	273,730	278,768	283,806	288,844	293,882	298,920	303,958	308,996	314,034	319,072	324,110	329,148	334,186	339,224	344,262
14	196	3.226 km		3	202,616	206,563	210,510	214,457	218,405	222,352	226,299	230,246	234,193	238,140	242,087	246,034	249,981	253,928	257,875	261,822	265,769	269,716
15	196	4.031 km	12.670 km	1	282,143	287,640	293,136	298,632	304,128	309,625	315,121	320,617	326,114	331,610	337,106	342,603	348,099	353,595	359,091	364,588	370,084	375,580
16	196	4.031 km	12.670 km	3	272,708	278,020	283,333	288,645	293,958	299,270	304,583	309,895	315,208	320,520	325,833	331,145	336,458	341,770	347,083	352,395	357,708	363,020
17	196	12.670 km		1	282,143	287,640	293,136	298,632	304,128	309,625	315,121	320,617	326,114	331,610	337,106	342,603	348,099	353,595	359,091	364,588	370,084	375,580
18 19	196 196		13.860 km 20.710 km	3	272,708 282,143	278,020 287.640	283,333 293,136	288,645 298,632	293,958 304,128	299,270 309,625	304,583 315,121	309,895 320,617	315,208 326,114	320,520 331,610	325,833 337,106	331,145 342,603	336,458 348.099	341,770	347,083 359.091	352,395 364,588	357,708 370,084	363,020 375,580
20	196		20.710 km	3	272,708	278,020	283,333	288,645	293,958	299,270	304,583	309,895	315,208	320,520	325,833	331,145	336,458	341,770	347,083	352,395	357,708	363,020
21	196		24.890 km	1	282,143	287,640	293,136	298,632	304,128	309,625	315,121	320,617	326,114	331,610	337,106	342,603	348,099	353,595	359,091	364,588	370,084	375,580
22	196	20.710 km	24.890 km	3	272,708	278,020	283,333	288,645	293,958	299,270	304,583	309,895	315,208	320,520	325,833	331,145	336,458	341,770	347,083	352,395	357,708	363,020
23	196		28.770 km	1	282,143	287,640	293,136	298,632	304,128	309,625	315,121	320,617	326,114	331,610	337,106	342,603	348,099	353,595	359,091	364,588	370,084	375,580
24 25	196		28.770 km	3	272,708	278,020	283,333	288,645	293,958	299,270	304,583	309,895	315,208	320,520	325,833	331,145	336,458	341,770	347,083	352,395	357,708	363,020
25	196 196		30.357 km 30.357 km	1	282,143 272,708	287,640 278,020	293,136 283,333	298,632 288,645	304,128 293,958	309,625 299,270	315,121 304,583	320,617 309,895	326,114 315,208	331,610 320,520	337,106 325,833	342,603 331,145	348,099 336,458	353,595 341,770	359,091 347,083	364,588 352,395	370,084 357,708	375,580 363,020
20	190		33.944 km	1	287.841	293,449	299,056	304.663	310.270	315,878	321,485	327,092	332,700	338,307	343,914	349,522	355,129	360,736	366.343	371,951	377.558	383,165
28	196		33.944 km	3	272,769	278,083	283,397	288,710	294,024	299,338	304,651	309,965	315,279	320,592	325,906	331,220	336,533	341,847	347,161	352,474	357,788	363,102
29	196		35.560 km	1	235,518	240,106	244,694	249,282	253,870	258,458	263,046	267,634	272,222	276,810	281,398	285,986	290,574	295,162	299,750	304,338	308,926	313,514
30	196			3	241,154	245,852	250,550	255,248	259,946	264,643	269,341	274,039	278,737	283,435	288,133	292,830	297,528	302,226	306,924	311,622	316,319	321,017
31	469	0.000 km		1	332,506	338,984	345,461	351,939	358,416	364,893	371,371	377,848	384,325	390,803	397,280	403,758	410,235	416,712	423,190	429,667	436,145	442,622
32	469 469	0.000 km 0.065 km	0.065 km 1.119 km	3	286,800 332,506	292,387 338,984	297,974 345,461	303,561 351,939	309,148 358,416	314,735 364,893	320,322	325,909	331,496 384,325	337,083 390,803	342,670	348,257 403,758	353,844 410,235	359,431	365,018 423,190	370,605 429,667	376,192 436,145	381,779
33	469	0.065 km		3	286.800	292.387	297.974	303.561	309,148	304,893	371,371 320,322	377,848 325,909	331,496	337.083	397,280 342.670	348.257	353.844	416,712 359,431	365.018	370.605	376,192	442,622 381,779
35	469	1.119 km	6.724 km	1	220,323	224,615	228,907	233,199	237,491	241,783	246,075	250,367	254,659	258,951	263,243	267,535	271,827	276,119	280,411	284,703	288,995	293,287
36	469	1.119 km	6.724 km	3	226,205	230,611	235,018	239,425	243,831	248,238	252,644	257,051	261,457	265,864	270,271	274,677	279,084	283,490	287,897	292,304	296,710	301,117
37	469	6.724 km	9.089 km	1	220,323	224,615	228,907	233,199	237,491	241,783	246,075	250,367	254,659	258,951	263,243	267,535	271,827	276,119	280,411	284,703	288,995	293,287
38	469	6.724 km	9.089 km	3	226,205	230,611	235,018	239,425	243,831	248,238	252,644	257,051	261,457	265,864	270,271	274,677	279,084	283,490	287,897	292,304	296,710	301,117
39 40	469 469	9.089 km 9.089 km	10.984 km 10.984 km	1	220,323 226,205	224,615 230,611	228,907 235,018	233,199 239,425	237,491 243,831	241,783 248,238	246,075 252,644	250,367 257,051	254,659 261,457	258,951 265,864	263,243 270,271	267,535 274,677	271,827 279,084	276,119 283,490	280,411 287,897	284,703 292,304	288,995 296,710	293,287 301,117
40	469	10.984 km		3	220,205	230,611	235,018	239,425	243,631	240,230	252,644	257,051	254,659	258,951	263,243	267,535	279,064	263,490	280,411	292,304	296,710	293,287
42	469		15.170 km	3	226,205	230,611	235,018	239,425	243,831	248,238	252,644	257,051	261,457	265,864	270,271	274,677	279,084	283,490	287,897	292,304	296,710	301,117
43	469		17.175 km	1	220,323	224,615	228,907	233,199	237,491	241,783	246,075	250,367	254,659	258,951	263,243	267,535	271,827	276,119	280,411	284,703	288,995	293,287
44	469		17.175 km	3	226,205	230,611	235,018	239,425	243,831	248,238	252,644	257,051	261,457	265,864	270,271	274,677	279,084	283,490	287,897	292,304	296,710	301,117
45	469		20.465 km	1	220,323	224,615	228,907	233,199	237,491	241,783	246,075	250,367	254,659	258,951	263,243	267,535	271,827	276,119	280,411	284,703	288,995	293,287
46	469 469		20.465 km	3	226,205	230,611	235,018	239,425	243,831	248,238	252,644	257,051	261,457	265,864	270,271	274,677	279,084	283,490	287,897 280,411	292,304	296,710 288,995	301,117
47	469		21.340 km 21.340 km	3	220,323 226,205	224,615 230,611	228,907 235,018	233,199 239,425	237,491 243,831	241,783 248,238	246,075 252,644	250,367 257,051	254,659 261,457	258,951 265,864	263,243 270,271	267,535 274,677	271,827 279,084	276,119 283,490	280,411	284,703 292,304	288,995	293,287 301,117
40	469		27.180 km	1	31,186	31,793	32,401	33,008	33,616	34,223	34,831	35,438	36,046	36,654	37,261	37,869	38,476	39,084	39,691	40,299	40,906	41,514
50	469		27.180 km	3	39,518	40,288	41,058	41,828	42,598	43,368	44,137	44,907	45,677	46,447	47,217	47,987	48,757	49,526	50,296	51,066	51,836	52,606
51	469		40.680 km	1	7,965	8,120	8,275	8,430	8,586	8,741	8,896	9,051	9,206	9,361	9,517	9,672	9,827	9,982	10,137	10,292	10,448	10,603
52	469		40.680 km	3	13,540	13,804	14,068	14,332	14,596	14,859	15,123	15,387	15,651	15,914	16,178	16,442	16,706	16,969	17,233	17,497	17,761	18,025
53 54	469 469		48.390 km 48.390 km	1	7,965	8,120 13,804	8,275	8,430 14,332	8,586 14,596	8,741 14.859	8,896 15,123	9,051 15.387	9,206 15,651	9,361 15.914	9,517 16,178	9,672 16.442	9,827 16,706	9,982 16,969	10,137 17,233	10,292	10,448	10,603 18.025
54	469		48.390 km 49.590 km	3	7,965	8,120	8,275	8,430	8,586	8,741	8,896	9,051	9,206	9,361	9,517	9,672	9,827	9,982	17,233	17,497	10,448	10,603
56	469	48.390 km		3	13,540	13,804	14,068	14,332	14,596	14,859	15,123	15,387	15,651	15,914	16,178	16,442	16,706	16,969	17,233	17,497	17,761	18,025
57	469		59.160 km	1	7,965	8,120	8,275	8,430	8,586	8,741	8,896	9,051	9,206	9,361	9,517	9,672	9,827	9,982	10,137	10,292	10,448	10,603
58	469		59.160 km	3	13,540	13,804	14,068	14,332	14,596	14,859	15,123	15,387	15,651	15,914	16,178	16,442	16,706	16,969	17,233	17,497	17,761	18,025
59	469		77.170 km	1	7,965	8,120	8,275	8,430	8,586	8,741	8,896	9,051	9,206	9,361	9,517	9,672	9,827	9,982	10,137	10,292	10,448	10,603
60 61	469 469		77.170 km	3	13,540 7,965	13,804	14,068	14,332	14,596	14,859	15,123	15,387	15,651	15,914	16,178	16,442	16,706	16,969 9,982	17,233	17,497	17,761	18,025
61	469	77.170 km 77.170 km	89.030 km 89.030 km	3	13,540	8,120 13,804	8,275 14,068	8,430 14,332	8,586 14,596	8,741 14,859	8,896 15,123	9,051 15,387	9,206 15,651	9,361 15,914	9,517 16,178	9,672 16,442	9,827 16,706	9,982	10,137 17,233	10,292 17,497	10,448	10,603 18,025
63	469	89.030 km	89.570 km	1	7.965	8,120	8,275	8,430	8,586	8,741	8,896	9,051	9,206	9,361	9,517	9,672	9,827	9,982	10,137	10,292	10,448	10,603
64	469		89.570 km	3	13,540	13,804	14,068	14,332	14,596	14,859	15,123	15,387	15,651	15,914	16,178	16,442	16,706	16,969	17,233	17,497	17,761	18,025

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm BKG 8/01/2014

#### Calculation Sheet Annual Basline ESAs

Cardno	TMR	Chainage	Chainage							_
ID#	ROAD	Start	End							
1	196		0.530 km	1	1,281,758	1,300,245	1,318,732	1,337,219	1,355,706	1,374,193
2	196		0.530 km	3	1,825,692	1,852,024	1,878,356	1,904,689	1,931,021	
3	196	0.530 km		1	1,060,477	1,075,772		1,106,363	1,121,659	1,136,954
4	196	0.530 km	0.875 km	3	1,210,094	1,227,547	1,245,001	1,262,454	1,279,907	1,297,361
5	196		0.950 km	1	1,060,477		1,091,068	1,106,363	1,121,659	1,136,954
6	196		0.950 km	3	1,210,094		1,245,001	1,262,454	1,279,907	
7	196		1.329 km	1	1,060,477		1,091,068		1,121,659	1,136,954
8	196		1.329 km	3	1,210,094		1,245,001		1,279,907	1,297,361
9	196		1.580 km	1	1,060,477	1,075,772		1,106,363	1,121,659	1,136,954
10	196		1.580 km	3	1,210,094	1,227,547		1,262,454	1,279,907	1,297,361
11	196		3.226 km	1	348,555	353,582	358,609	363,636	368,664	373,691
12	196		3.226 km	3	353,437	358,535	363,633	368,730	373,828	378,925
13	196		4.030 km	1	349,300	354,338	359,376	364,413	369,451	374,489
14	196		4.030 km	3	273,664	277,611	281,558	285,505	289,452	293,399
15	196		12.670 km	1	381,077	386,573	392,069	397,566	403,062	408,558
16	196		12.670 km	3	368,333	373,645	378,958	384,270	389,583	394,895
17	196	12.670 km	13.860 km	1	381,077	386,573	392,069	397,566	403,062	408,558
18	196	12.670 km	13.860 km	3	368,333	373,645	378,958	384,270	389,583	394,895
19	196	13.860 km	20.710 km	1	381,077	386,573	392,069	397,566	403,062	408,558
20	196		20.710 km	3	368,333	373,645	378,958	384,270	389,583	394,895
21	196		24.890 km	1	381,077	386,573	392,069	397,566	403,062	408,558
22	196		24.890 km	3	368,333	373,645	378,958	384,270	389,583	394,895
23	196		28.770 km	1	381,077	386,573	392,069	397,566	403,062	408,558
24	196		28.770 km	3	368,333	373,645	378,958	384,270	389,583	394,895
25	196		30.357 km	1	381,077	386,573	392,069	397,566	403,062	408,558
26	196		30.357 km	3	368,333	373,645	378,958	384,270	389,583	394,895
27	196		33.944 km	1	388,773	394,380	399,987	405,595	411,202	416,809
28	196		33.944 km	3	368,415	373,729	379,043	384,357	389,670	394,984
29	196		35.560 km	1	318,102	322,690	327,278	331,866	336,454	341,042
30	196		35.560 km	3	325,715	330,413	335,111	339,808	344,506	349.204
31	469		0.065 km	1	449.099	455,577	462,054	468,532	475,009	481,486
32	469		0.065 km	3	387,366	392,953	398,540	404,127	409,714	415 301
33	469		1.119 km	1	449,099	455,577	462,054	468,532	475,009	481 486
33	469		1.119 km	3	387,366	392,953	398,540	406,532	409,714	415 301
34	469		6.724 km	3	297,579	392,953	398,540	404,127 310,455	314,747	310 020
									314,747	319,039
36	469		6.724 km	3	305,523	309,930	314,337	318,743	323,150	327,556
37	469		9.089 km	1	297,579	301,871	306,163	310,455	314,747	319,039
38	469	6.724 km		3	305,523	309,930	314,337	318,743	323,150	327,556
39	469		10.984 km	1	297,579	301,871	306,163	310,455	314,747	319,039
40	469		10.984 km	3	305,523	309,930	314,337	318,743	323,150	327,556
41	469		15.170 km	1	297,579	301,871	306,163	310,455	314,747	319,039
42	469		15.170 km	3	305,523	309,930	314,337	318,743	323,150	327,556
43	469		17.175 km	1	297,579	301,871	306,163	310,455		
44	469		17.175 km	3	305,523	309,930	314,337	318,743	323,150	327,556
45	469		20.465 km	1	297,579	301,871	306,163	310,455	314,747	319,039
46	469		20.465 km	3	305,523	309,930	314,337	318,743	323,150	327,556
47	469		21.340 km	1	297,579	301,871	306,163		314,747	319,039
48	469	20.465 km	21.340 km	3	305,523	309,930	314,337	318,743	323,150	327,556
49	469	21.340 km	27.180 km	1	42,121	42,729	43,336	43,944	44,551	45,159
50	469		27.180 km	3	53,376	54,145	54,915	55,685	56,455	57,225
51	469		40.680 km	1	10,758	10,913	11,068	11,223	11,379	11,534
52	469		40.680 km	3	18,288	18,552	18,816	19,080	19,343	19,607
53	469		48.390 km	1	10,758	10,913	11,068	11,223	11,379	11,534
54	469		48.390 km	3	18,288	18,552	18,816	19,080	19,343	19,607
55	469		49.590 km	1	10,758	10,913	11,068	11,223	11,379	11,534
56	469		49.590 km	3	18,288	18,552	18,816	19,080	19,343	19,607
57	469		59.160 km	. 1	10,758	10,913	11,068	11,223	11,379	11,534
57	469		59.160 km	3	18,288	18,552	18,816	19,080	19,343	19,607
58				3						
	469		77.170 km		10,758	10,913	11,068	11,223	11,379	11,534
60	469		77.170 km	3	18,288	18,552	18,816	19,080	19,343	19,607
61	469		89.030 km	1	10,758	10,913	11,068	11,223	11,379	11,534
62	469		89.030 km	3	18,288	18,552	18,816	19,080	19,343	19,607
63	469		89.570 km	1	10,758	10,913	11,068	11,223	11,379	11,534
64	469	89.030 km	89.570 km	3	18,288	18,552	18,816	19,080	19,343	19,607

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm BKG 8/01/2014

#### Calculation Sheet Cumulative Basline ESAs

Cardno	TMR ROAD	Chainage Start	Chainage End	Direction	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
1	196	0.000 km		1	616,230	1,250,947	1,904,150	2,575,841	3,266,018	3,974,683	4,701,834	5,447,472	6,211,597	6,994,209	7,795,308	8,614,894	9,452,966	10,309,526	11,184,572	12,078,105	12,990,126	13,920,633
2	196	0.000 km	0.530 km	3	877,737	1,781,805	2,712,206	3,668,939	4,652,004	5,661,402	6,697,131	7,759,192	8,847,586	9,962,311	11,103,369	12,270,759	13,464,481	14,684,534	15,930,921	17,203,639	18,502,689	19,828,071
3	196	0.530 km		1	509,845	1,034,985	1,575,420	2,131,151	2,702,177		3,890,116	4,507,028	5,139,235	5,786,738	6,449,536			8,529,703			10,747,528	
4	196	0.530 km		3	581,776	1,181,005	1,797,688	2,431,824	3,083,413	3,752,456	4,438,951	5,142,900	5,864,303	6,603,158	7,359,467	8,133,229					12,263,839	
5	196	0.875 km	0.950 km	1	509,845	1,034,985	1,575,420	2,131,151	2,702,177	3,288,499	3,890,116	4,507,028	5,139,235	5,786,738	6,449,536	7,127,630	7,821,019		9,253,683	9,992,958		
6	196	0.875 km	0.950 km	3	581,776	1,181,005	1,797,688	2,431,824	3,083,413	3,752,456	4,438,951	5,142,900	5,864,303	6,603,158	7,359,467	8,133,229	8,924,445		10,559,235	11,402,811		
8	196 196	0.950 km 0.950 km	1.329 km	1	509,845 581,776	1,034,985	1,575,420	2,131,151	2,702,177	3,288,499	3,890,116 4,438,951	4,507,028 5,142,900	5,139,235 5,864,303	5,786,738	6,449,536 7,359,467	7,127,630	7,821,019 8,924,445		9,253,683		10,747,528 12,263,839	
9	196	1.329 km	1.329 km 1.580 km	3	509.845	1.034.985	1,797,666	2,431,824 2.131.151	3,083,413	3,752,456 3,288,499	3,890,116	4.507.028	5,004,303	6,603,158 5,786,738	6.449.536	8,133,229 7,127,630	7,821,019		9,253,683		12,203,039	
10	196	1.329 km	1.580 km	3	581.776	1.181.005	1,797,688	2,431,824	3.083.413	3.752.456	4,438,951	5,142,900	5,864,303	6,603,158	7,359,467	8,133,229	8,924,445					
11	196	1.580 km	3.226 km	1	167,574	340,176	517,805	700,461	888,144	1,080,855	1,278,593	1,481,358	1,689,150	1,901,970	2,119,816	2,342,690	2,570,592		3,041,476	3,284,459		
12	196	1.580 km		3	169,922	344,941	525,058	710,273	900,585	1,095,995	1,296,503	1,502,108	1,712,811	1,928,612	2,149,510	2,375,506	2,606,599		3,084,079	3,330,466		3,838,532
13	196	3.226 km	4.030 km	1	167,932	340,903	518,911	701,958	890,042	1,083,165	1,281,325	1,484,523	1,692,759	1,906,034	2,124,346	2,347,696	2,576,084	2,809,510	3,047,975	3,291,477	3,540,017	3,793,595
14	196	3.226 km		3	131,569	267,085	406,548	549,958	697,316	848,620	1,003,871	1,163,070	1,326,215	1,493,308	1,664,348		2,018,268			2,578,752		2,972,144
15	196	4.031 km		1	183,210	371,916	566,119	765,817	971,013	1,181,704	1,397,892	1,619,576	1,846,756	2,079,433	2,317,606	2,561,275	2,810,440		3,325,260	3,590,915		4,138,712
16	196	4.031 km		3	177,083	359,479	547,187	740,207	938,540	1,142,186	1,351,144	1,565,414	1,784,997	2,009,892	2,240,100	2,475,621	2,716,454		3,214,057	3,470,827		4,000,306
17	196	12.670 km		1	183,210	371,916	566,119	765,817	971,013	1,181,704	1,397,892	1,619,576	1,846,756	2,079,433	2,317,606	2,561,275	2,810,440			3,590,915		4,138,712
18	196	12.670 km		3	177,083	359,479	547,187	740,207	938,540	1,142,186	1,351,144	1,565,414	1,784,997	2,009,892	2,240,100	2,475,621	2,716,454		3,214,057	3,470,827		
19 20	196 196	13.860 km 13.860 km		3	183,210 177,083	371,916 359,479	566,119 547,187	765,817 740,207	971,013 938,540	1,181,704	1,397,892	1,619,576	1,846,756	2,079,433 2,009,892	2,317,606 2,240,100	2,561,275 2,475,621	2,810,440 2,716,454		3,325,260 3,214,057	3,590,915 3,470,827		4,138,712 4,000,306
20	196	20.710 km		1	183,210	371,916	566,119	765,817	938,540	1,142,180	1,397,892	1,619,576	1,846,756	2,009,892	2,240,100	2,561,275	2,810,440			3,590,915		4,138,712
22	196	20.710 km		3	177,083	359,479	547,187	740,207	938,540	1,142,186	1,351,144	1,565,414	1,784,997	2,009,892	2,240,100		2,716,454		3,214,057	3,470,827		4.000.306
23	196	24.890 km		1	183,210	371,916	566,119	765,817	971,013	1,181,704	1,397,892	1,619,576	1,846,756	2,079,433	2,317,606			3,065,102	3,325,260	3,590,915		4,138,712
24	196	24.890 km	28.770 km	3	177,083	359,479	547,187	740,207	938,540	1,142,186	1,351,144	1,565,414	1,784,997	2,009,892	2,240,100		2,716,454		3,214,057	3,470,827		4,000,306
25	196	28.770 km		1	183,210	371,916	566,119	765,817	971,013	1,181,704	1,397,892	1,619,576	1,846,756	2,079,433	2,317,606		2,810,440			3,590,915		4,138,712
26	196	28.770 km		3	177,083	359,479	547,187	740,207	938,540	1,142,186	1,351,144	1,565,414	1,784,997	2,009,892	2,240,100	2,475,621	2,716,454		3,214,057	3,470,827		4,000,306
27	196	30.357 km		1	186,910	379,427	577,552	781,284	990,623	1,205,569	1,426,123	1,652,284	1,884,052	2,121,428	2,364,411	2,613,001	2,867,198		3,392,415	3,663,435		4,222,295
28 29	196	30.357 km		3	177,123	359,559	547,310	740,373	938,751	1,142,442	1,351,447	1,565,766	1,785,398	2,010,344	2,240,604				3,214,779	3,471,607		4,001,205
30	196 196	33.944 km 33.944 km		1	152,934 156,594	310,455 317,885	472,565 483,875	639,262 654,562	810,548 829,947	986,421 1,010,030	1,166,883	1,351,932	1,541,570 1,578,465	1,735,796	1,934,609 1,980,911	2,138,011 2,189,181	2,346,001 2,402,148		2,775,744 2,842,177	2,997,497 3,069,238		3,454,769 3,537,453
30	469	0.000 km		1	215,913	438,304	667,172	902,517	1,144,340	1,392,640	1,647,418	1,908,673	2,176,405	2,450,615		3,018,466	3,312,108		3,918,824	4,231,899		4,877,479
32	469	0.000 km		3	186,234	378,054	575.462	778,456	987,038	1,201,207	1,420,962	1,646,305	1,877,235	2,113,751	2,355,855	2,603,546	2,856,823		3,380,140	3,650,178		4.207.017
33	469	0.065 km		1	215,913	438,304	667,172	902,517	1,144,340	1.392.640		1.908.673	2.176.405	2,450,615	2,731,302	3,018,466	3,312,108		3.918.824	4.231.899		4.877.479
34	469	0.065 km	1.119 km	3	186,234	378,054	575,462	778,456	987,038	1,201,207	1,420,962	1,646,305	1,877,235	2,113,751	2,355,855	2,603,546	2,856,823	3,115,688	3,380,140	3,650,178	3,925,804	4,207,017
35	469	1.119 km	6.724 km	1	143,067	290,426	442,077	598,019	758,254	922,781	1,091,600	1,264,711	1,442,114	1,623,809	1,809,796				2,596,664	2,804,110	3,015,849	3,231,880
36	469	1.119 km	6.724 km	3	146,886	298,179	453,878	613,984	778,497	947,416	1,120,742	1,298,474	1,480,613	1,667,159	1,858,111	2,053,469	2,253,235		2,665,985	2,878,970		3,318,160
37	469	6.724 km	9.089 km	1	143,067	290,426	442,077	598,019	758,254	922,781	1,091,600	1,264,711	1,442,114	1,623,809	1,809,796	2,000,075	2,194,646		2,596,664	2,804,110		3,231,880
38	469	6.724 km	9.089 km	3	146,886	298,179	453,878	613,984	778,497	947,416	1,120,742	1,298,474	1,480,613	1,667,159	1,858,111	2,053,469	2,253,235		2,665,985	2,878,970		3,318,160
39 40	469 469	9.089 km		1	143,067	290,426	442,077	598,019	758,254	922,781 947,416	1,091,600	1,264,711	1,442,114	1,623,809	1,809,796	2,000,075	2,194,646		2,596,664	2,804,110		3,231,880 3,318,160
40	469	9.089 km 10.984 km		3	146,886 143.067	298,179 290,426	453,878 442,077	613,984 598.019	778,497 758,254	947,416	1,120,742	1,298,474	1,480,613	1,667,159	1,858,111 1,809,796	2,053,469	2,253,235 2,194,646		2,665,985	2,878,970 2.804,110		3,231,880
42	469	10.984 km		3	146,886	298,179	453,878	613,984	778,497		1,120,742	1,298,474	1,480,613	1,667,159	1,858,111	2,053,469	2,253,235		2,665,985	2,878,970		
43	469	15.170 km		1	143,067	290,426	442,077	598,019	758,254		1,091,600	1,264,711	1,442,114	1,623,809	1,809,796	2,000,075			2,596,664	2,804,110		3,231,880
44	469	15.170 km		3	146,886	298,179	453,878	613,984	778,497	947,416	1,120,742	1,298,474	1,480,613	1,667,159	1,858,111	2,053,469	2,253,235		2,665,985	2,878,970		
45	469	17.175 km	20.465 km	1	143,067	290,426	442,077	598,019	758,254	922,781	1,091,600	1,264,711	1,442,114	1,623,809	1,809,796	2,000,075	2,194,646	2,393,509	2,596,664	2,804,110	3,015,849	3,231,880
46	469	17.175 km		3	146,886	298,179	453,878	613,984	778,497	947,416	1,120,742	1,298,474	1,480,613	1,667,159	1,858,111	2,053,469	2,253,235		2,665,985	2,878,970		3,318,160
47	469	20.465 km		1	143,067	290,426	442,077	598,019	758,254	922,781	1,091,600	1,264,711	1,442,114	1,623,809	1,809,796	2,000,075	2,194,646		2,596,664	2,804,110		3,231,880
48 49	469 469	20.465 km		3	146,886	298,179	453,878	613,984	778,497	947,416	1,120,742	1,298,474	1,480,613	1,667,159	1,858,111	2,053,469	2,253,235		2,665,985	2,878,970		3,318,160
49 50	469	21.340 km 21.340 km		1	20,251 25,661	41,109 52,092	62,574 79,293	84,647 107,264	107,328 136,005	130,616 165,516	154,512 195,796	179,015 226,846	204,126 258,666	229,844 291,256	256,170 324,616	283,103 358,745	310,644 393,645	338,792 429,314	367,548 465,753	396,911 502,962	426,882 540,941	457,460 579,689
50	469	27.340 km		3 1	25,001	52,092	15.982	21.619	27.412	33.360	39,463	45,721	258,666	58,703	65,426	72.305	79.339	429,314	93.873	101.372		116.837
52	469	27.180 km		3	8,792	17,849	27.169	36,753	46,600	56,712	67,087	77,726	88,628	99,795	111,225	122,919	134,877	147,098	159,584	172,333	185,346	198,622
53	469	40.680 km		1	5,172	10,499	15,982	21,619	27,412	33,360	39,463	45,721	52,134	58,703	65,426	72,305	79,339	86,528	93,873	101,372		116,837
54	469	40.680 km		3	8,792	17,849	27,169	36,753	46,600	56,712	67,087	77,726	88,628	99,795	111,225	122,919	134,877	147,098	159,584	172,333	185,346	198,622
55	469	48.390 km		1	5,172	10,499	15,982	21,619	27,412	33,360	39,463	45,721	52,134	58,703	65,426	72,305	79,339	86,528	93,873	101,372		116,837
56	469	48.390 km		3	8,792	17,849	27,169	36,753	46,600	56,712	67,087	77,726	88,628	99,795	111,225	122,919	134,877	147,098	159,584	172,333	185,346	198,622
57	469	49.590 km		1	5,172	10,499	15,982	21,619	27,412	33,360	39,463	45,721	52,134	58,703	65,426	72,305	79,339	86,528	93,873	101,372		116,837
58	469	49.590 km		3	8,792	17,849	27,169	36,753	46,600	56,712	67,087	77,726	88,628	99,795	111,225	122,919	134,877	147,098	159,584	172,333	185,346	198,622
59 60	469	59.160 km		1	5,172	10,499	15,982	21,619	27,412	33,360	39,463	45,721	52,134	58,703	65,426	72,305	79,339	86,528	93,873	101,372		116,837
60	469	77.170 km		3	8,792 5,172	17,849 10,499	27,169 15,982	36,753 21,619	46,600 27,412	56,712 33,360	67,087 39,463	77,726 45,721	88,628 52,134	99,795 58,703	111,225 65,426	72,305	134,877 79,339	147,098 86,528	159,584 93,873	172,333 101,372	185,346 109,027	198,622 116,837
62	469	77.170 km		3	8,792	17,849	27,169	36,753	46,600	56,712	67,087	77,726	88,628	99,795	111,225	122,919	134,877	147,098	159,584	172,333	185,346	198,622
63	469	89.030 km		1	5,172	10,499	15,982	21,619	27,412	33,360	39,463	45,721	52,134	58,703	65,426	72,305	79,339	86,528	93,873	101,372	109,027	116,837
64	469	89.030 km		3	8,792	17,849	27,169	36,753	46,600	56,712	67,087	77,726	88,628	99,795	111,225	122,919	134,877		159,584	172,333	185,346	198,622
			-																			

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm cuml\_BKG 8/01/2014

#### Calculation Sheet Cumulative Basline ESAs

Cardno ID#	TMR	Chainage	Chainage	Direction	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
1	196	0.000 km	0.530 km	1	14,869,627	15,837,108	16,823,075	17,827,530	18,850,472	19,891,900	20,951,815	22,030,218	23,127,107	24,242,483	25,376,346	26,528,696	27,699,532	28,888,856	30,096,667	31,322,964	32,567,748	33,831,020
2	196	0.000 km		3						28,333,340												
3	196	0.530 km		1						16,457,789												
4	196	0.530 km		3						18,779,731												
5	196	0.875 km		1						16,457,789												
6	196 196	0.875 km 0.950 km		3						18,779,731 16,457,789												
8	196	0.950 km		3						18,779,731												
9	196	1.329 km		1		13,103,011				16,457,789									24,900,819			
10	196	1.329 km		3						18,779,731												
11	196	1.580 km		1		4,306,663	4,574,782				5,697,530	5,990,786							8,184,335		8,856,308	
12	196	1.580 km		3	4,100,211	4,366,989	4,638,863	4,915,836	5,197,906		5,777,339	6,074,702	6,377,163	6,684,721	6,997,377		7,637,982			8,637,122		
13 14	196 196	3.226 km 3.226 km		3	4,052,211 3,174,760	4,315,865 3,381,323	4,584,557 3,591,834	4,858,287 3,806,291	5,137,055 4,024,696		5,709,704 4,473,346	6,003,586 4,703,592	6,302,506 4,937,784	6,606,464 5,175,924	6,915,460 5,418,011	7,229,493 5,664,045	7,548,565 5,914,026			8,536,008 6,687,652		
14	196	4.031 km		1	4,420,855	4,708,495	5,001,631	5,300,263	5,604,392		6,229,137	6,549,755	6,875,868	7,207,478	7,544,585		8,235,286			9,312,560		10,058,225
16	196	4.031 km		3	4,273,014		4,834,367	5,123,012	5,416,970		6,020,823	6,330,719	6,645,926	6,966,447	7,292,279	7,623,425	7,959,882			9,001,131	9,358,838	
17	196	12.670 km		1	4,420,855	4,708,495	5,001,631	5,300,263	5,604,392		6,229,137	6,549,755	6,875,868	7,207,478	7,544,585	7,887,187	8,235,286	8,588,881		9,312,560		10,058,225
18	196	12.670 km		3	4,273,014	4,551,034	4,834,367	5,123,012	5,416,970		6,020,823	6,330,719	6,645,926	6,966,447	7,292,279	7,623,425	7,959,882	8,301,653		9,001,131		
19	196	13.860 km		1	4,420,855	4,708,495	5,001,631	5,300,263	5,604,392		6,229,137	6,549,755	6,875,868	7,207,478	7,544,585	7,887,187	8,235,286	8,588,881		9,312,560		10,058,225
20	196 196	13.860 km 20.710 km		3	4,273,014 4,420,855	4,551,034 4,708,495	4,834,367 5,001,631	5,123,012 5,300,263	5,416,970 5,604,392		6,020,823 6,229,137	6,330,719 6,549,755	6,645,926 6,875,868	6,966,447 7,207,478	7,292,279	7,623,425	7,959,882 8,235,286		8,648,735 8,947,973	9,001,131 9,312,560		9,721,859 10,058,225
21	196	20.710 km		3	4,420,855	4,708,495	4,834,367	5,300,203	5,604,392		6,020,823	6,330,719	6,645,926	6,966,447	7,344,565	7,623,425	7,959,882			9,001,131	9,062,045	
23	196	24.890 km		1	4,420,855	4,708,495	5,001,631	5,300,263	5,604,392		6,229,137	6,549,755	6,875,868	7,207,478	7,544,585	7,887,187				9,312,560		10,058,225
24	196	24.890 km		3	4,273,014		4,834,367	5,123,012			6,020,823		6,645,926	6,966,447	7,292,279	7,623,425	7,959,882			9,001,131		
25	196	28.770 km	30.357 km	1	4,420,855	4,708,495	5,001,631	5,300,263	5,604,392	5,914,016	6,229,137	6,549,755	6,875,868	7,207,478	7,544,585	7,887,187	8,235,286	8,588,881	8,947,973	9,312,560	9,682,645	10,058,225
26	196	28.770 km		3	4,273,014		4,834,367	5,123,012	5,416,970		6,020,823	6,330,719		6,966,447	7,292,279	7,623,425	7,959,882			9,001,131		
27	196	30.357 km		1	4,510,137	4,803,585	5,102,641	5,407,304	5,717,575		6,354,938	6,682,030	7,014,730	7,353,037	7,696,951	8,046,472	8,401,601	8,762,338		9,500,632		10,261,355
28 29	196 196	30.357 km 33.944 km		3	4,273,974 3.690,286	4,552,056 3.930.392	4,835,453 4,175,086	5,124,163 4,424,367	5,418,187 4.678.237		6,022,176 5,199,740	6,332,141 5,467,374	6,647,419 5,739,596	6,968,012 6,016,405	7,293,918	7,625,137 6,583,789	7,961,671 6.874,363	8,303,518 7,169,524		9,003,153 7.773.612		
30	196	33.944 km		3	3,778,607	4,024,460	4,175,080		4,078,237		5,324,188	5,598,227	5,876,964	6,160,399	6,448,531	6,741,361	7,038,890			7.959.661	8,082,558	
31	469	0.000 km		1	5,209,985	5,548,969	5,894,430	6,246,369	6,604,785		7,341,049		8,103,222		8,891,305	9,295,063			10,545,200			11,853,634
32	469	0.000 km	0.065 km	3	4,493,816	4,786,203	5,084,177	5,387,738	5,696,885		6,331,942	6,657,851	6,989,346	7,326,429	7,669,099	8,017,356	8,371,200			9,466,253	9,842,445	10,224,224
33	469	0.065 km		1	5,209,985	5,548,969	5,894,430	6,246,369	6,604,785			7,718,897	8,103,222	8,494,025	8,891,305	9,295,063		10,122,011		10,974,868		11,853,634
34	469	0.065 km		3	4,493,816		5,084,177	5,387,738	5,696,885		6,331,942	6,657,851	6,989,346	7,326,429	7,669,099	8,017,356	8,371,200			9,466,253		10,224,224
35 36	469 469	1.119 km 1.119 km		1	3,452,203 3,544,364	3,676,818	3,905,725	4,138,924 4,249,418	4,376,415		4,864,273 4,994,131	5,114,640	5,369,299 5,512,640	5,628,250	5,891,493 6,048,775	6,159,028 6,323,452	6,430,855 6,602,536	6,706,974 6,886,026		7,272,088 7,466,227	7,561,084 7,762,937	
30	469	6.724 km		3	3,452,203	3,676,818	3,905,725	4,249,418	4,495,249		4,994,131	5,251,162	5,369,299	5,628,250	5,891,493	6,159,028	6,430,855	6,706,974		7,272,088	7,561,084	
38	469	6.724 km		3	3,544,364	3,774,976	4,009,994	4,249,418	4,493,249		4,994,131	5,251,182	5,512,640	5,778,504	6,048,775	6,323,452	6,602,536	6,886,026		7,466,227	7,762,937	
39	469	9.089 km		1	3,452,203	3,676,818	3,905,725	4,138,924	4,376,415		4,864,273	5,114,640	5,369,299	5,628,250	5,891,493	6,159,028	6,430,855			7,272,088		
40	469	9.089 km		3	3,544,364	3,774,976	4,009,994	4,249,418			4,994,131	5,251,182	5,512,640	5,778,504	6,048,775		6,602,536			7,466,227		
41	469	10.984 km		1	3,452,203	3,676,818	3,905,725	4,138,924	4,376,415		4,864,273	5,114,640	5,369,299	5,628,250	5,891,493	6,159,028	6,430,855	6,706,974		7,272,088	7,561,084	
42 43	469 469	10.984 km 15.170 km		3	3,544,364	3,774,976	4,009,994 3,905,725	4,249,418 4,138,924	4,493,249 4,376,415			5,251,182 5,114,640	5,512,640 5,369,299	5,778,504 5,628,250	6,048,775 5,891,493	6,323,452	6,602,536 6,430,855	6,886,026 6,706,974		7,466,227 7,272,088	7,762,937 7,561,084	
43	469	15.170 km		3	3,452,203 3,544,364	3,676,818 3,774,976	4,009,994	4,136,924			4,864,273 4,994,131	5,114,640	5,512,640	5,778,504	6,048,775	6,159,028 6,323,452	6,602,536			7,466,227		
45	469	17.175 km		1	3,452,203	3,676,818	3,905,725			4,618,198	4,864,273	5.114.640	5,369,299	5,628,250	5,891,493	6,159,028	6,430,855			7,272,088		
46	469	17.175 km		3	3,544,364	3,774,976	4,009,994	4,249,418		4,741,487	4,994,131	5,251,182	5,512,640	5,778,504	6,048,775	6,323,452	6,602,536	6,886,026		7,466,227		
47	469	20.465 km	21.340 km	1	3,452,203	3,676,818	3,905,725	4,138,924	4,376,415	4,618,198	4,864,273	5,114,640	5,369,299	5,628,250	5,891,493	6,159,028	6,430,855	6,706,974	6,987,385	7,272,088	7,561,084	7,854,371
48	469	20.465 km		3	3,544,364	3,774,976	4,009,994	4,249,418			4,994,131	5,251,182	5,512,640	5,778,504	6,048,775	6,323,452	6,602,536	6,886,026		7,466,227	7,762,937	
49	469	21.340 km		1	488,646	520,440	552,840	585,849	619,465		688,519	723,958	760,004	796,657	833,918	871,787	910,263	949,346	989,038	1,029,336	1,070,242	
50 51	469 469	21.340 km 27.180 km		3	619,208 124,802	659,496 132,922	700,554	742,382	784,980		872,485 175.850	917,392 184,901	963,070 194,107	1,009,517 203,468	1,056,733 212,985	1,104,720 222.657	1,153,477 232,484	1,203,003 242,466	1,253,299 252.603	1,304,365 262,895	1,356,201 273,343	1,408,807 283,946
52	469	27.180 km		3	212,163	225,967	240.035	254,367	268,962		298.944	314,331	329,982	345,896	362,075	378,516	395,222	412,400	429,425	446,922	464.683	482,707
53	469	40.680 km		1	124,802	132,922	141,197	149,627	158,213		175,850	184,901	194,107	203,468	212,985	222,657	232,484	242,466	252,603	262,895	273,343	283,946
54	469	40.680 km	48.390 km	3	212,163	225,967	240,035	254,367	268,962	283,821	298,944	314,331	329,982	345,896	362,075	378,516	395,222	412,192	429,425	446,922	464,683	482,707
55	469	48.390 km		1	124,802	132,922	141,197	149,627	158,213		175,850	184,901	194,107	203,468	212,985	222,657	232,484	242,466	252,603	262,895	273,343	283,946
56	469	48.390 km		3	212,163	225,967	240,035	254,367	268,962		298,944	314,331	329,982	345,896	362,075	378,516	395,222	412,192		446,922	464,683	482,707
57 58	469 469	49.590 km 49.590 km		1	124,802 212,163	132,922 225,967	141,197 240,035	149,627 254,367	158,213 268,962		175,850 298,944	184,901 314,331	194,107 329,982	203,468 345,896	212,985 362,075	222,657 378,516	232,484 395,222	242,466 412,192	252,603 429,425	262,895 446,922	273,343 464,683	283,946 482,707
59	469	59.160 km		3	124,802	132,922	141,197	149,627	158,213		175,850	184,901	194,107	203,468	212,985	222,657	232,484	242,466	252,603	262,895	273,343	283,946
60	469	59.160 km		3	212,163	225,967	240,035	254,367	268,962		298,944	314,331	329,982	345,896	362,075	378,516	395,222	412,192		446,922	464,683	482,707
61	469	77.170 km		1	124,802	132,922	141,197	149,627	158,213		175,850	184,901	194,107	203,468	212,985	222,657	232,484	242,466	252,603	262,895	273,343	283,946
62	469	77.170 km		3	212,163	225,967	240,035	254,367	268,962		298,944	314,331	329,982	345,896	362,075	378,516	395,222	412,192	429,425	446,922	464,683	482,707
63	469	89.030 km		1	124,802	132,922	141,197	149,627	158,213		175,850	184,901	194,107	203,468	212,985	222,657	232,484	242,466	252,603	262,895	273,343	283,946
64	469	89.030 km	89.570 km	3	212,163	225,967	240,035	254,367	268,962	283,821	298,944	314,331	329,982	345,896	362,075	378,516	395,222	412,192	429,425	446,922	464,683	482,707

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm cuml\_BKG 8/01/2014

#### Calculation Sheet Cumulative Basline ESAs

Cardno	TMR	Chainage	Chainage							1
ID#	ROAD	Chainage Start								
1	196	0.000 km		1	35,112,778	36,413,023	37,731,755	39,068,973	40,424,679	41,798,872
2	196	0.000 km		3			53,743,816			
3	196	0.530 km		1			31,217,796			
4	196	0.530 km		3			35,622,148			
5	196	0.875 km		1	29,050,955	30,126,728	31,217,796	32,324,159	33,445,817	34,582,771
6	196	0.875 km		3	33,149,600	34,377,147	35,622,148	36,884,602	38 164 500	30 /61 870
7	196	0.950 km	1.329 km	1	29,050,955	30,126,728	31,217,796	32,324,159	33,445,817	34,582,771
8	196	0.950 km	1.329 km	3			35,622,148		38,164,509	39,461,870
9	196	1.329 km		1			31,217,796		33,445,817	34,582,771
10	196	1.329 km		3			35,622,148		38,164,509	39,461,870
11	196	1.580 km	3.226 km	1	9,548,390	9,901,972	10,260,582	10,624,218	10,992,882	11,366,573
12	196	1.580 km		3			10,404,308		11,146,866	11,525,791
13	196	3.226 km		1			10,282,506		11,016,371	11,390,860
14	196	3.226 km		3			8,055,970		8,630,926	8,924,325
15	196	4.031 km		1			11,217,944		12,018,571	12,427,129
16	196	4.031 km					10,842,794		11,616,647	12,011,542
17	196	12.670 km		1			11,217,944		12,018,571	12,427,129
18	196	12.670 km		3			10,842,794		11,616,647	12,011,542
19	196	13.860 km		1			11,217,944		12,018,571	12,427,129
20	196	13.860 km		3			10,842,794		11,616,647	12,011,542
21	196	20.710 km		1			11,217,944		12,018,571	12,427,129
22	196	20.710 km		3			10,842,794		11,616,647	12,011,542
23	196	24.890 km		1			11,217,944		12,018,571	12,427,129
24	196	24.890 km		3			10,842,794		11,616,647	12,011,542
25	196	28.770 km					11,217,944		12,018,571	12,427,129
26	196	28.770 km					10,842,794		11,616,647	12,011,542
27	196	30.357 km		1			11,444,495		12,261,291	12,678,101
28	196	30.357 km		3			10,845,230		11,619,257	12,014,241
29	196	33.944 km		1		9,036,843			10,032,440	10,373,482
30	196	33.944 km		3			9,588,236		10,272,551	10,621,755
31	469	0.000 km		1			13,220,365		14,163,906	14,645,392
32	469	0.000 km		3			11,403,082		12,216,923	12,632,224
33	469	0.065 km		1			13,220,365		14,163,906	14,645,392
34	469	0.065 km		3			11,403,082		12,216,923	12,632,224
35	469	1.119 km		1			8,759,984		9,385,186	9,704,225
36	469	1.119 km	6.724 km	3	8,369,577	8,679,507	8,993,843	9,312,586	9,635,736	9,963,292
37	469	6.724 km		1		8,453,821	8,759,984	9,070,439	9,385,186	9,704,225
38	469	6.724 km	9.089 km	3		8,679,507		9,312,586	9,635,736	9,963,292
39	469	9.089 km		1		8,453,821		9,070,439	9,385,186	9,704,225
40	469	9.089 km		3		8,679,507		9,312,586	9,635,736	9,963,292
41	469	10.984 km		1		8,453,821			9,385,186	9,704,225
42	469	10.984 km		3		8,679,507		9,312,586	9,635,736	9,963,292
43	469	15.170 km				8,453,821		9,070,439		
44	469	15.170 km		3		8,679,507		9,312,586		
45	469	17.175 km		1		8,453,821		9,070,439		
46	469	17.175 km		3		8,679,507	8,993,843	9,312,586		
40	469	20.465 km		1	8,151,950		8,759,984	9,070,439		
48	469	20.465 km		3		8,679,507		9,312,586		
40	469	21.340 km		1		1,196,606			1,328,437	
50	469	21.340 km		3	1,462,182		1,571,243	1,626,928		
51	469	27.180 km		1	294,703	305,616	316,685	327,908		
52	469	27.180 km			500,996	519,548		557,444		
53	469	40.680 km		1	294,703	305,616	316.685	327,908		
53	469	40.680 km		3	500,996	519,548	538,364	557,444		
55	469	40.660 km		3	294,703	305,616	316,685	327,908		
55	469			3	294,703	519,548	538,364	327,908 557,444		
	469	48.390 km		3						
57		49.590 km			294,703	305,616	316,685	327,908		
58	469	49.590 km		3	500,996	519,548	538,364	557,444		
59	469	59.160 km		1	294,703	305,616	316,685	327,908		
60	469	59.160 km			500,996	519,548	538,364	557,444		
61	469	77.170 km				305,616	316,685	327,908		
62	469	77.170 km			500,996	519,548	538,364	557,444		
63	469	89.030 km			294,703	305,616	316,685	327,908		
64	469	89.030 km	89.570 km	3	500,996	519,548	538,364	557,444	576,787	596,394

## Bowen Basin SREIS

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm cuml\_BKG 8/01/2014

#### Calculation Sheet Annual (Baseline + Project)

Cardno ID#		Chainage Start	Chainage End	Direction	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
1	196	0.000 km		1	616,233	634,739	653,274	672,024	690,276	708,795	727,294	745,813	764,223	782,739	801,235	819,662	838,146	856,706	875,129	893,603	912,109	930,552
2	196	0.000 km		3	877,755	904,195	930,797	958,622	983,623	1,010,135	1,036,539	1,063,051	1,088,951	1,115,445	1,141,831	1,167,822	1,194,136	1,220,882	1,246,854	1,273,114	1,299,554	1,325,634
3	196 196	0.530 km		1 3	509,848 581,794	525,162	540,505	556,064	571,125	586,452	601,760	617,087	632,306	647,630	662,935	678,170 774,194	693,462	708,830 809,496	724,062	739,345	754,659	769,910
4	196	0.530 km 0.875 km		3	581,794	599,355 525.302	617,078 541,281	636,025 557,188	652,147 571.926	669,780 586.897	687,305 602.265	704,939 617,560	721,960 632.819	739,575 648.079	757,083 663,140	678.381	791,629 693.839	709.206	826,590 724,267	843,971 739,419	861,532 754,714	878,734 769.920
6	196	0.875 km		3	581,782	525,302	616,832	634,393	651,748	669,144	686,610	704,063	721,510	738,957	756,369	773,813	791,295	808,761	826,173	843,601	861.054	878,491
7	196	0.950 km		1	509,881	525,302	541,281	557,188	571,926	586,897	602,265	617,560	632,819	648,079	663,140	678,381	693,839	709,206	724,267	739,419	754,714	769,920
8	196	0.950 km	1.329 km	3	581,782	599,258	616,832	634,393	651,748	669,144	686,610	704,063	721,510	738,957	756,369	773,813	791,295	808,761	826,173	843,601	861,054	878,491
9	196	1.329 km		1	509,881	525,302	541,281	557,188	571,926	586,897	602,265	617,560	632,819	648,079	663,140	678,381	693,839	709,206	724,267	739,419	754,714	769,920
10	196	1.329 km		3	581,782	599,258	616,832	634,393	651,748	669,144	686,610	704,063	721,510	738,957	756,369	773,813	791,295	808,761	826,173	843,601	861,054	878,491
11	196 196	1.580 km 1.580 km		3	167,610 169,928	172,764 175.048	178,475 180,266	184,114 185,472	188,583 190.471	193,286 195,512	198,386 200,622	203,413 205,720	208,404 210,811	213,395 215.902	218,189 220,959	223,162 226,047	228,351 231,173	233,450 236,283	238,244 241,340	243,127 246,412	248,154 251,510	253,091 256,591
13	196	3.226 km		1	167,968	173,132	178.854	184,504	188.984	193,698	198.808	203,720	208.848	213,850	218.654	223,638	228.838	233,948	238.752	240,412	248.684	253,632
14	196	3.226 km		3	131,575	135,545	139,612	143,667	147,516	151,406	155,366	159,313	163,254	167,194	171,100	175,038	179,013	182,973	186,879	190,800	194,748	198,679
15	196	4.031 km	12.670 km	1	183,210	188,706	194,203	199,699	205,195	210,691	216,188	221,684	227,180	232,677	238,173	243,669	249,165	254,662	260,158	265,654	271,151	276,647
16	196	4.031 km		3	177,083	182,396	187,708	193,021	198,333	203,645	208,958	214,270	219,583	224,895	230,208	235,520	240,833	246,145	251,458	256,770	262,083	267,395
17	196	12.670 km		1	183,210	188,706	194,203	199,699	205,195	210,691	216,188	221,684	227,180	232,677	238,173	243,669	249,165	254,662	260,158	265,654	271,151	276,647
18	196 196	12.670 km 13.860 km		3	177,083 183,210	182,396 188,706	187,708	193,021 199,699	198,333 205,195	203,645 210,691	208,958 216,188	214,270 221,684	219,583 227,180	224,895 232,677	230,208 238,173	235,520 243,669	240,833 249,165	246,145 254,662	251,458 260,158	256,770 265,654	262,083 271,151	267,395 276,647
20	196	13.860 km		3	177,083	182,396	187.708	193,033	198,333	203,645	208,958	214,270	219,583	224,895	230,208	235,520	240,833	246,145	251,458	256,770	262.083	267.395
21	196	20.710 km		1	183,210	188,706	194,203	199,699	205,195	210,691	216,188	221,684	227,180	232,677	238,173	243,669	249,165	254,662	260,158	265,654	271,151	276,647
22	196	20.710 km	24.890 km	3	177,083	182,396	187,708	193,021	198,333	203,645	208,958	214,270	219,583	224,895	230,208	235,520	240,833	246,145	251,458	256,770	262,083	267,395
23	196	24.890 km		1	183,210	188,706	194,203	199,699	205,195	210,691	216,188	221,684	227,180	232,677	238,173	243,669	249,165	254,662	260,158	265,654	271,151	276,647
24 25	196 196	24.890 km 28.770 km		3	177,083	182,396 188,706	187,708 194,203	193,021	198,333	203,645 210,691	208,958 216,188	214,270 221,684	219,583	224,895 232,677	230,208 238,173	235,520	240,833 249,165	246,145 254,662	251,458 260,158	256,770	262,083 271,151	267,395 276,647
25	196	28.770 km		3	183,210 177,083	182,396	194,203	199,699 193,021	205,195 198,333	203,645	208,958	221,004	227,180 219,583	232,677	230,173	243,669 235,520	249,165	254,662	251,458	265,654 256,770	262,083	276,647
27	196	30.357 km		1	186,910	192,517	198,125	203,732	209,339	214,946	220,554	226,161	231,768	237,376	242,983	248,590	254,198	259,805	265,412	271,019	276,627	282,234
28	196	30.357 km		3	177,123	182,437	187,750	193,064	198,378	203,691	209,005	214,319	219,632	224,946	230,260	235,573	240,887	246,201	251,514	256,828	262,142	267,455
29	196	33.944 km	35.560 km	1	152,934	157,522	162,110	166,698	171,286	175,874	180,462	185,050	189,638	194,226	198,814	203,402	207,990	212,578	217,166	221,754	226,342	230,930
30	196	33.944 km		3	156,594	161,292	165,989	170,687	175,385	180,083	184,781	189,478	194,176	198,874	203,572	208,270	212,968	217,665	222,363	227,061	231,759	236,457
31	469	0.000 km		1	215,913	222,391	228,868	235,345	241,823	248,300	254,778	261,255	267,732	274,365	281,133	290,941	296,663	305,059	310,503	314,581	322,168	328,303
32 33	469 469	0.000 km 0.065 km		3	186,234 215,913	191,821 222,391	197,408 228,868	202,995 235,345	208,582 241,823	214,169 248,300	219,756 254,778	225,343 261,255	230,930 267,732	237,728 274,210	245,573 280,687	277,082 287,165	276,747 293,642	297,290 300,119	294,821 306,597	281,782 313,074	296,010 319,552	298,930 326,029
34	469	0.065 km		3	186,234	191.821	197.408	202,995	208,582	214,169	219,756	225,343	230,930	236,517	242.104	247,691	253,278	258.865	264.452	270,039	275,626	281.213
35	469	1.119 km		1	143,067	147,359	151,651	155,943	160,235	164,527	168,819	173,111	177,403	181,695	185,987	190,279	194,571	198,863	203,155	207,447	211,739	216,031
36	469	1.119 km	6.724 km	3	146,886	151,293	155,699	160,106	164,513	168,919	173,326	177,732	182,139	186,545	190,952	195,359	199,765	204,172	208,578	212,985	217,392	221,798
37	469	6.724 km		1	143,067	147,359	151,651	155,943	160,235	164,527	168,819	173,111	177,403	181,695	185,987	190,279	194,571	198,863	203,155	207,447	211,739	216,031
38	469	6.724 km		3	146,886	151,293	155,699	160,106	164,513	168,919	173,326	177,732	182,139	186,545	190,952	195,359	199,765	204,172	208,578	212,985	217,392	221,798
39 40	469 469	9.089 km 9.089 km		1 3	143,067 146,886	147,359 151,293	151,651 155,699	155,943 160,106	160,235 164,513	164,527 168,919	168,819 173,326	173,111	177,403 182,139	181,695 186,545	185,987 190,952	190,279 195,359	194,571 199,765	198,863 204,172	203,155 208,578	207,447 212,985	211,739 217,392	216,031 221,798
40	469	10.984 km		1	143.067	147.359	151.651	155,943	160.235	164,527	168.819	173.111	177.403	181,695	185.987	190,279	199,703	198.863	208,578	207.447	211,392	216.031
42	469	10.984 km		3	146,886	151,293	155,699	160,106	164,513	168,919	173,326	177,732	182,139	186,545	190,952	195,359	199,765	204,172	208,578	212,985	217,392	221,798
43	469	15.170 km	17.175 km	1	143,067	147,359	151,651	155,943	160,235	164,527	168,819	173,111	177,403	181,695	185,987	190,279	194,571	198,863	203,155	207,447	211,739	216,031
44	469	15.170 km		3	146,886	151,293	155,699	160,106	164,513	168,919	173,326	177,732	182,139	186,545	190,952	195,359	199,765	204,172	208,578	212,985	217,392	221,798
45	469	17.175 km		1 3	143,067	147,359	151,651	155,943	160,235	164,527	168,819	173,111	177,403	181,695	185,987	190,279	194,571	198,863	203,155	207,447	211,739	216,031
46	469 469	17.175 km 20.465 km		3	146,886 143,067	151,293 147,359	155,699 151,651	160,106 155,943	164,513 160,235	168,919	173,326 168,819	177,732 173,111	182,139 177,403	186,545 181,695	190,952 185,987	195,359 190,279	199,765 194,571	204,172 198,863	208,578 203,155	212,985 207,447	217,392 211,739	221,798 216,031
47	469	20.465 km		3	146,886	151,293	155,699	160,106	164,513	168,919	173,326	177,732	182,139	186,545	190,952	190,279	199,765	204,172	203,135	212,985	217,39	221,798
49	469	21.340 km		1	20,251	20,858	21,466	22,073	22,681	23,288	23,896	24,503	25,111	25,718	26,326	26,933	27,541	28,148	28,756	29,363	29,971	30,578
50	469	21.340 km		3	25,661	26,431	27,201	27,971	28,741	29,511	30,280	31,050	31,820	32,590	33,360	34,130	34,899	35,669	36,439	37,209	37,979	38,749
51	469	27.180 km		1	5,172	5,327	5,482	5,638	5,793	5,948	6,103	6,258	6,413	6,569	6,724	6,879	7,034	7,189	7,344	7,499	7,655	7,810
52	469	27.180 km		3	8,792	9,056	9,320	9,584	9,848	10,111	10,375	10,639	10,903	11,166	11,430	11,694	11,958	12,222	12,485	12,749	13,013	13,277
53 54	469 469	40.680 km		1	5,172 8,792	5,327 9.056	5,482 9.320	5,638 9,584	5,793 9.848	5,948 10.111	6,103 10,375	6,258 10,639	6,413 10,903	6,569 11,166	6,724 11,430	6,879 11,694	7,034	7,189	7,344 12,485	7,499	7,655	7,810
55	469	48.390 km		1	5,172	5,327	5,482	5,638	5,793	5,948	6,103	6,258	6,413	6,569	6,724	6,879	7,034	7,189	7,344	7,499	7,655	7,810
56	469	48.390 km		3	8,792	9,056	9,320	9,584	9,848	10,111	10,375	10,639	10,903	11,166	11,430	11,694	11,958	12,222	12,485	12,749	13,013	13,277
57	469	49.590 km		1	5,172	5,327	5,482	5,638	5,793	5,948	6,103	6,258	6,413	6,569	6,724	6,879	7,034	7,189	7,344	7,499	7,655	7,810
58	469	49.590 km		3	8,792	9,056	9,320	9,584	9,848	10,111	10,375	10,639	10,903	11,166	11,430	11,694	11,958	12,222	12,485	12,749	13,013	13,277
59 60	469 469	59.160 km		1	5,172 8,792	5,327	5,482	5,638	5,793	5,948	6,103	6,258	6,413	6,569	6,724	6,879	7,034	7,189	7,344	7,499	7,655	7,810
60	469	59.160 km 77.170 km		3	8,792	9,056 5,327	9,320 5,482	9,584 5,638	9,848 5,793	10,111 5,948	10,375 6,103	10,639 6,258	10,903 6,413	11,166 6,569	11,430 6,724	11,694 6,879	11,958 7,034	12,222 7,189	12,485 7,344	12,749 7,499	13,013 7,655	13,277 7,810
62	469	77.170 km		3	8,792	9,056	9,320	9,584	9,848	10,111	10,375	10,639	10,903	11,166	11,430	11,694	11,958	12,222	12,485	12,749	13,013	13,277
63	469	89.030 km		1	5,172	5,327	5,482	5,638	5,793	5,948	6,103	6,258	6,413	6,569	6,724	6,879	7,034	7,189	7,344	7,499	7,655	7,810
64	469	89.030 km		3	8,792	9,056	9,320	9,584	9,848	10,111	10,375	10,639	10,903	11,166	11,430	11,694	11,958	12,222	12,485	12,749	13,013	13,277

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm BKG+DEV 8/01/2014

#### Calculation Sheet Annual (Baseline + Project)

1         10         100         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000<	Cardno		Chainage	Chainage	Direction	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
1         1         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100		196	0.000 km		1	949,029	967,503	985,971	1,004,464	1,022,951	1,041,432	1,059,922	1,078,405	1,096,889	1,115,376	1,133,863	1,152,350	1,170,837	1,189,324	1,207,811	1,226,297	1,244,784	1,263,271
4         166         155 Um         3         99:13         91:46         90:46         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26         100:26	2				3		1,378,173																
5         68         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69        69        69        69					1																		
6         6.8         6.8         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9         6.9					3																		
7         188         0.000         1.3900         1.990.00         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30         1.992.30 <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>					1																		
8         190         0.0000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000         1.20000 </td <td>6</td> <td></td> <td></td> <td></td> <td>3</td> <td></td>	6				3																		
9         158         158         158         158         158         157         157         158         157         157         158         157         157         158         157         158         157         158         157         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158         158					2																		
10       108       1.35 Len       136 Len       3       186 Ada       06.748       06.202       100.205       100.205       100.205       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206       110.206																							
11       196       1.80 m       3.22 m       1       255.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257.17       257	-																						
1       1       2       1       2       1       2       1       2       2       1       1       2       2       1       1       2       2       1       1       2       1       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       1       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2	11	196	1.580 km	3.226 km	1	258,137	263,110	268,155	273,146		283,201				303,310	308,337						338,500	343,528
14       198       3.28 km       4.00 km       3       28.70 km       27.70 km	12				3				276,972			292,265				312,656							348,340
15       16       4.01 tm       12.70 m       1       221.60       28.14       31.60       31.70       42.400       34.60       35.60       36.60       36.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.60       35.	13				1		263,672			278,768													
16       4       4       17       0       27.7       27.8       28.33       286.46       29.7.7       28.10       33.1       16       38.4.8       31.7       17.8       38.2.8       31.7       17.8       38.2.8       31.7       17.8       38.2.8       31.7       17.8       38.2.8       31.7       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8       31.8					3																		
17       196       12 67 Um       1880 m       1       226 402       236 402       396 202       315 14       316 10       377 06       \$42,600       346,001       336 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300       302 300 </td <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>					1																		
16         18         196         12         12         10         13         22         27         10         23         25         33         14         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33         40         33        40        30        40 <td></td> <td></td> <td></td> <td></td> <td>3</td> <td></td>					3																		
10         18         18         10         12         22         14         23         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33         16         33        16         33 </td <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>					1																		
20       196       13.40 m 2 70 m 3       272,70 m 276,003       228,043       239,643       2315,200       235,831       2311,46       336,463       2307,200       235,831       2317,10       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       247,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253,000       253					3																		
1       198       A7 10 mg 24800 m       1       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,440       287,448       287,440       287,448       287,440       287,448       287,440       287,448       287,448       287,440       287,448       287,448       287,448       287,448       287,448       287,448       287,448       287,448       287,448       287,448       287,448       287,448       287,448       287,448       287,448       287,448       287,448       287,448       287,448 <t< td=""><td></td><td></td><td></td><td></td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>					3																		
12       166       20.710m       24.800 km       31       277,768       278,050       283,563       293,563       301,450       330,600       335,633       331,45       336,465       341,770       347,083       326,683       394,768       380,000         28       166       28,770 km       30,377 km       340,000       335,563       331,415       333,140       327,001       342,688       347,004       335,563       331,416       337,106       342,688       335,568       356,618       347,568       355,568       355,618       347,708       356,004       355,568       355,618       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       355,668       356,668       377,668       356,668					1																		
22       196       24.860       25.778       77.00       1       282.43       287.60       283.585       331.40       337.10       337.10       337.00       353.585       331.41       337.400       353.585       331.41       337.400       353.585       331.41       337.400       353.585       331.44       334.485       340.690       353.585       331.44       334.485       340.690       353.585       331.44       334.645       344.68       347.708       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80       757.80 <td></td> <td></td> <td></td> <td></td> <td>3</td> <td></td>					3																		
25       166       28.770 km       30.377 km       1       222,140       223,161       296,628       30.171       30.770       32.600       32.600       32.600       33.600       39.601       39.458       37.004       37.580         27       166       30.377 km       3.277 km       30.601       30.671       32.513       34.170       33.763       34.243       34.763       34.243       34.763       34.763       34.763       34.764       34.643       34.763       35.233       30.710       31.763       37.768       38.026       35.513       34.763       35.513       34.763       35.513       34.763       35.513       34.763       35.513       34.763       35.513       34.763       35.516       37.764       35.516       37.764       35.516       37.763       37.764       35.516       37.763       37.722       27.7718       37.844       35.618       377.648       37.843       38.756       37.647       37.642       35.344       35.519       35.618       377.648       37.648       38.767       38.767       38.764       37.548       39.6718       37.663       37.663       37.663       37.663       37.663       37.663       37.663       37.663       37.663       37.663	23	196	24.890 km	28.770 km	1	282,143	287,640		298,632	304,128	309,625	315,121	320,617	326,114	331,610	337,106	342,603	348,099	353,595	359,091	364,588	370,084	375,580
196         28.70 ml         3.97 ml         3.97 ml         27.70 ml         27					3																		
27       196       30.37 m   3.344 km       1       277,68       283,102       33.487 m   3.38,270       33.83,270       33.83,271       33.84,271       33.83,231       43.9622       355,123       356,133       43.9716       356,333       43.9716       356,333       43.9716       356,333       43.9716       356,333       43.9716       356,333       43.9716       356,333       43.9716       356,333       43.9716       356,333       43.9716       356,333       43.9716       356,333       43.9716       356,333       43.9716       356,333       43.9716       356,333       43.9716       357,363       357,7718       37718       377,733       377,733       377,733       377,733       377,734       377,733       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,773       377,774       377,748       353,461       355,351					1																		
28         196         30.37 km         33.944 km         3         272,769         233,97         283,170         294,070         254,581         200,562         312,271         300,562         312,20         336,533         314,477         347,761         353,778         353,120           30         196         33.944 km         35.560 km         3         241,164         245,551         240,282         253,578         254,870         254,884         272,127         286,153         282,503         287,578         300,227         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,207         301,					3																		
29       190       33.944 km       35.560 km       1       225,170       284,488       205,080       227,222       276,010       281,384       282,586       290,740       291,384       282,586       290,740       291,384       282,586       290,740       291,384       282,586       297,583       394,383       392,280       311,514       311,514       311,514       311,544       334,485       390,003       397,280       432,257       453,344       446,222       442,522       446,222       442,522       447,514       314,464       314,485       311,514       337,483       344,427       344,427       344,441       431,435       450,114       437,198       347,445       344,440       447,522       437,145       314,444       447,323       446,01       447,522       437,145       314,441       447,323       441,441,443       447,323       444,522       447,523       441,544       447,523       441,544       445,523       441,544       447,523       441,544       447,523       441,544       447,523       441,544       446,523       441,554       441,553       441,553       441,553       441,553       441,553       441,553       441,553       441,553       441,553       441,553       441,553       441,553 <th< td=""><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>					1																		
90       916       33       444       M3 560 km       3       241,154       248,520       229,257       228,370       227,371       228,380       297,280       302,228       306,223       301,221       314,353       343,353       340,007       345,353       353,407       353,355       301,403       301,007       345,353       340,007       345,353       340,007       345,353       340,007       345,353       340,007       345,353       341,023       311,627       331,466       331,461       446,614       442,852       353,441       386,116       370,005       371,371       377,375       371,371       377,80       371,427       333,445       386,413       386,415       341,352       322,272       325,003       331,460       337,403       332,270       342,270       344,270       344,281       335,411       336,116       370,005       371,171       377,737       373,71       377,737       373,71       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713       371,713					3																		
31       469       0.008 km       0.068 km       3       31.007       345.862       336.016       377.03       378.042       384.262       386.003       397.262       401.3768       410.235       410.712       423.167       423.667       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       443.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.467       433.4					3																		
32         449         0.006 km         0.065 km         3         301,047         307,685         327,085         331,466         337,085         342,270         348,277         358,844         396,918         370,605         387,612         387,612         387,768         332,863         342,270         348,257         358,844         396,313         366,607         377,618         337,683         342,270         348,257         358,344         396,313         366,607         376,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162         387,162 <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>					1																		
33       449       0.068 km       1.119 km       1       332, 506       332, 507       335, 44       344, 469       442, 622         35       4499       0.068 km       1.119 km       6.724 km       1       223, 373       224, 375       223, 373       244, 507       233, 344       353, 344       353, 344       353, 344       353, 344       353, 344       353, 344       353, 344       353, 344       353, 344       353, 344       354, 353       271, 827       271, 197       280, 411       284, 705       284, 705       271, 817       287, 706       283, 840       287, 706       283, 840       287, 706       283, 840       287, 706       283, 840       287, 707       283, 841       284, 705       271, 817       287, 706       283, 840       287, 707       283, 840       287, 707       283, 816       283, 841       284, 852       284, 852       283, 854       271, 277, 816       280, 411       284, 703       288, 861       283, 841       283, 841       283, 841       284, 852       284, 857       283, 841       283, 841       284, 852       284, 857       283, 841       283, 841       283, 841       283, 841       284, 852       284, 857       283, 841       283, 841       284, 857       283, 841       284, 857       283, 841 <td></td> <td></td> <td></td> <td></td> <td>3</td> <td></td>					3																		
35         469         1.119 km         6.724 km         1         2220.323         224.615         228.907         233.499         228.907         289.869         288.851         285.243         277.535         277.827         276.119         280.411         247.033         289.969         293.267           37         469         6.724 km         9.089 km         1         220.323         224.615         228.942         243.813         246.267         220.367         256.84         270.721         276.717         270.614         283.490         287.535         271.827         223.404         284.905         289.851         283.243         287.535         271.827         228.409         283.490         289.987         283.490         287.535         271.827         276.119         286.710         301.117           40         499         9.089 km         10.994 km         1         220.323         224.615         228.907         223.492         243.839         286.42         276.512         274.671         276.119         286.710         301.117           41         469         10.994 km         15.170 km         1         220.323         224.615         228.907         223.491         244.1823         226.642         277.512					1																		
36       469       1.19 km       6.724 km       3       222.026       230.611       232.9426       243.831       242.838       252.644       257.051       287.657       274.677       279.084       283.490       287.897       292.304       289.710       300.117         38       469       6.724 km       9.098 km       3       222.026       233.011       233.199       237.491       247.831       246.4075       266.4075       266.844       270.271       274.677       279.084       283.490       287.897       282.304       287.710       300.117         40       9.098 km       10.994 km       3       222.026       230.611       233.428       234.831       242.838       262.644       257.051       261.457       255.891       237.427       271.617       277.617       277.617       277.617       277.617       277.617       279.084       283.490       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840       287.840<		469			3	286,800	292,387	297,974	303,561	309,148	314,735	320,322	325,909		337,083	342,670	348,257	353,844	359,431	365,018	370,605	376,192	381,779
37       469       6,724 km       9.098 km       1       220,323       224,615       223,490       227,647       247,783       246,059       226,943       227,871       227,611       284,040       287,895       278,717       230       246,059       252,644       227,647       227,647       227,044       224,040       267,897       230,945       233,492       237,491       247,787       226,047       227,617       224,649       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647       227,647<					1																		
38       469       6.724 km       9.098 km       3       222,026       233,011       223,018       2248,238       2248,238       226,042       226,037       226,058       227,271       274,677       279,044       283,490       282,897       292,304       296,710       301,117         40       469       10.984 km       15 170 km       3       226,205       230,611       223,018       234,232       248,238       226,644       257,051       261,457       229,064       267,573       274,677       279,044       283,490       283,490       284,073       284,028       248,238       226,055       263,672       246,075       261,457       265,056       227,271       274,677       279,044       283,490       284,073       284,073       244,028       248,028       250,057       261,457       225,056       227,271       274,677       279,044       283,490       284,070       298,390       293,287       244,073       244,073       246,075       261,457       265,664       270,271       274,677       279,044       283,490       284,070       298,392       293,287       244,073       244,078       246,558       263,672       246,558       263,672       246,558       263,672       246,558       263,572					3																		
9       469       9.088 km       10.994 km       1       220.323       224.615       228.951       237.491       247.633       246.059       258.951       267.55       277.819       287.410       284.703       284.905       293.287         40       469       9.098 km       15.170 km       1       220.323       224.615       228.907       237.491       247.673       246.075       263.851       263.243       287.555       277.819       287.400       288.495       293.247         42       469       10.994 km       15.170 km       1       220.323       224.615       228.907       233.491       247.833       246.075       250.467       263.437       287.557       277.819       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490       288.490					1																		
469       9.089 km       10.984 km       3       222.205       230.611       235.016       239.425       243.831       246.238       282.644       257.051       261.457       265.951       263.243       267.555       271.847       224.071       270.271       274.071       274.077       279.084       283.243       267.857       271.847       246.755       271.847       256.951       263.243       267.555       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755       271.847       246.755 <t< td=""><td></td><td></td><td></td><td></td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>					3																		
41       499       10.984 km       15.170 km       1       220.32       224.615       229.097       233.199       237.491       241.783       246.075       256.961       263.243       227.557       271.827       276.199       280.411       284.703       289.995       293.287         44       499       15.170 km       17.175 km       3       220.205       230.011       239.425       227.641       257.655       271.827       276.199       280.411       284.703       289.995       293.287         44       499       15.170 km       17.175 km       3       220.620       230.011       239.425       244.675       250.647       255.061       261.642       270.271       274.671       274.671       280.411       284.703       289.995       293.247         46       499       17.175 km       24.655       m1       220.807       233.492       274.471       244.073       289.695       293.287       271.827       276.190       280.411       284.703       289.695       293.247       274.671       246.656       270.271       274.677       276.190       280.411       284.703       289.695       293.247       274.677       256.861       270.871       276.617       256.864       270.					2																		
42       469       10.984 km 15.170 km       3       226,205       230,411       235,018       239,425       243,831       246,075       250,367       226,469       258,964       270,271       274,677       270,942       283,490       287,897       292,304       296,710       301,117         44       469       15,170 km       11,175 km       3       226,205       230,611       235,018       230,425       244,831       244,075       256,964       270,211       274,677       270,942       283,490       287,897       292,304       286,705       286,905       283,287         46       469       17,775 km       20,465 km       3       226,205       230,611       235,018       233,490       237,491       244,783       246,075       250,367       256,864       270,21       274,637       270,944       283,490       287,897       292,304       296,710       301,117         47       469       10,775 km       20,465 km       3       226,205       230,611       233,491       244,733       246,075       250,367       256,864       270,211       274,637       270,84       283,490       287,897       292,304       296,710       301,117         47       429,040 km       3					1																		
469       15.170 km       1.177 km       1       220.323       224.615       228.991       233.199       237.491       244.783       246.075       259.67       258.951       267.55       271.827       276.119       280.411       224.703       288.490       287.897       229.04       289.701       233.199       237.491       244.783       246.075       250.367       254.659       256.864       270.71       276.119       280.411       284.703       288.490       287.897       220.304       286.701       331.197       237.491       244.783       246.075       250.367       254.659       256.864       270.271       274.677       270.844       283.490       287.897       292.304       296.710       301.117         46       469       17.175 km       24.658       120.465       220.421       224.651       250.367       254.659       256.861       263.243       267.655       271.827       276.119       280.411       244.703       288.995       283.287         48       469       21.340 km       27.180 km       32.401       32.401       32.401       32.401       32.401       32.401       32.401       32.401       32.401       32.401       32.401       32.401       32.401       32.401					3																		
44       469       15.170 km       17.175 km       3       226.205       230.611       235.042       243.831       248.288       225.644       257.051       271.67.55       274.67.55       274.67.55       274.67.55       274.67.55       274.67.55       274.67.55       274.67.55       274.67.55       274.67.55       274.67.55       274.67.55       274.67.55       274.67.55       271.827       276.19       283.490       287.897       292.304       296.710       301.13       283.987       292.304       296.710       301.31       283.987       292.304       296.710       301.31       283.987       292.304       296.710       301.31       323.877       276.675       271.877       279.084       283.490       287.897       292.304       296.710       301.117         46       469       21.340 km       1       32.061       32.9425       243.831       248.238       252.644       257.051       261.457       265.864       270.271       274.677       279.064       283.490       287.897       292.304       296.710       301.117         49       469       21.340 km       27.180 km       3.13.640       33.068       33.616       34.223       34.831       34.23       34.833       34.835       36.464					1																		
46       469       17.75 km       20.465 km       3       226,205       230,611       232,018       238,425       248,231       248,238       226,644       257,051       261,457       266,864       270,271       274,677       279,084       283,490       287,897       292,304       296,710       301,117         47       469       20.465 km       21.340 km       3       226,253       224,813       248,238       226,644       257,051       261,457       266,864       270,271       274,677       279,084       283,490       287,897       282,840       287,897       282,847       286,864       270,271       274,677       279,084       288,490       287,897       282,847       248,338       246,258       252,644       257,051       261,457       266,864       271,271       274,977       279,084       283,490       287,897       282,304       286,710       301,117         49       469       21.340 km       27.180 km       1       31,186       31,783       32,018       33,084       44,259       44,137       44,907       45,677       46,474       47,217       47,987       48,526       50,296       50,206       50,206       50,206       50,206       50,606 km       50,806 km	44	469	15.170 km	17.175 km	3		230,611	235,018	239,425	243,831	248,238	252,644	257,051	261,457	265,864	270,271	274,677	279,084	283,490	287,897	292,304	296,710	301,117
447       449       20.465 km       21.340 km       1       220.323       224.615       228.907       233.199       237.491       241.783       246.075       256.469       258.951       263.243       267.535       271.827       276.119       280.411       284.903       288.995       293.287         48       469       21.340 km       21.340 km       21.340 km       31.186       31.733       32.411       33.841       248.238       226.442       257.051       264.656       37.261       37.679       29.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847       39.847 <t< td=""><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>					1																		
48       469       20.465 km       21.340 km       3       226.205       230.611       235.018       239.425       243.831       248.238       252.644       257.051       261.457       265.864       270.271       274.677       279.084       283.490       287.897       292.304       296.710       301.117         49       469       21.340 km       27.180 km       3       39.684       30.641       35.438       36.644       37.261       37.869       39.044       39.084       39.084       39.081       40.99       40.90       41.514         50       469       27.180 km       40.680 km       1       7.965       8.120       8.275       8.430       8.586       8.741       8.896       9.051       9.517       9.517       9.627       9.827       9.982       10.137       10.292       10.448       10.603         53       469       40.680 km       48.390 km       1       7.965       8.120       8.275       8.430       8.586       8.741       8.896       9.051       9.051       9.517       9.672       9.827       9.982       10.137       10.292       10.448       10.603         54       489       40.680 km       8.390 km       3					3																		
49       469       21.340 km       27.180 km       1       31,186       31,793       32,401       33,008       33,616       34,223       34,831       35,438       36,046       36,654       37,261       37,869       38,476       39,084       39,691       40,299       40,096       41,514         50       469       21.340 km       27.180 km       3       39,518       40,284       41,058       41,828       42,598       43,368       44,137       44,907       46,771       47,987       48,757       49,526       50,296       51,066       51,836       52,606       52,266       50,296       51,066       51,836       52,606       52,266       50,296       51,066       51,836       52,606       51,836       52,606       52,266       50,296       51,066       51,836       52,606       53,469       40,680 km       43,304       14,068       14,332       14,596       14,859       15,133       15,651       15,914       16,178       16,442       16,706       16,969       17,233       17,497       17,761       18,025         54       469       40,680 km       48,390 km       31,3640       14,068       14,332       14,596       14,859       15,123       15,387       15,651					1																		
50       469       21.340 km       27.180 km       3       39.518       40.288       41.058       44.2598       43.368       44.137       44.907       45.677       46.447       47.217       47.987       48.757       49.526       50.296       51.066       51.836       52.066         51       469       27.180 km       40.680 km       1       7.965       8.120       8.275       8.430       8.586       8.741       8.886       9.051       9.206       9.617       9.672       9.827       9.822       10.137       10.292       10.448       10.603         53       469       40.680 km       48.390 km       48.390 km       17.965       8.120       8.275       8.430       8.586       8.741       8.866       9.051       9.206       9.361       9.517       9.672       9.827       9.882       10.137       10.292       10.448       10.603         54       469       40.680 km       48.390 km       3       13.640       13.804       14.068       14.859       15.123       15.387       15.651       15.914       16.178       16.442       16.706       16.969       17.23       17.497       17.448       10.603         55       469       48.390 k					3																		
51       469       27.180 km       40.680 km       1       7,965       8,120       8,275       8,430       8,586       8,741       8,896       9,051       9,206       9,361       9,517       9,672       9,827       9,982       10,137       10,292       10,448       10,603         52       469       27.180 km       40.680 km       3       13,540       13,804       14,068       14,352       14,596       14,859       15,123       15,387       15,651       15,914       16,776       16,642       16,706       16,969       17,233       17,497       17,761       18,025         54       469       40.680 km       48.390 km       3       13,640       13,804       14,068       14,332       14,596       14,859       15,123       15,387       15,651       15,914       16,178       16,442       16,706       16,969       17,233       17,497       17,761       18,025         55       469       48.390 km       49.590 km       3       13,640       13,804       14,068       14,332       14,596       14,859       15,123       15,387       15,651       15,914       16,178       16,442       16,706       16,969       17,233       17,497       17,761					3																		
52       469       27.180 km       40.680 km       3       13,540       13,804       14,068       14,332       14,596       14,859       15,123       15,87       15,651       15,914       16,178       16,442       16,706       16,969       17,233       17,497       17,761       18,025         53       469       40.680 km       48.390 km       1       7,965       8,120       8,275       8,430       8,586       8,741       8,886       9,051       9,206       9,517       9,672       9,827       9,882       10,137       10,292       10,448       10,603         55       469       48.390 km       49,590 km       1       7,965       8,120       8,275       8,430       8,586       8,741       8,896       9,051       9,206       9,361       9,517       9,672       9,827       9,982       10,137       10,292       10,448       10,603         56       469       48.390 km       49,590 km       3       13,640       13,804       14,068       14,332       14,596       14,859       15,387       15,651       15,914       16,178       16,442       16,706       16,969       17,233       17,497       17,761       18,025       16,480       16,706 </td <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>					1																		
53       469       40.880 km       48.390 km       33.540       3.840       8.686       8.741       8.886       9.051       9.206       9.361       9.517       9.672       9.827       9.882       10.137       10.292       10.448       10.603         54       469       46.890 km       48.390 km       33.640       13.804       14.088       14.332       14.596       14.859       15.123       15.387       15.651       15.914       16.442       16.706       16.969       17.233       17.497       17.448       10.603         55       469       48.390 km       49.590 km       3       13.640       13.804       14.068       14.332       14.596       14.859       15.123       15.387       15.651       15.914       16.178       16.442       16.706       10.969       17.233       17.497       17.761       18.025         57       469       49.590 km       59.160 km       1       7.965       8.120       8.275       8.430       8.686       8.741       8.896       9.051       15.914       16.178       16.442       16.706       16.969       17.233       17.497					3																		
54         469         40.680 km         48.390 km         3         13,540         13,804         14,068         14,332         14,596         15,123         15,87         15,651         15,914         16,178         16,442         16,706         16,669         17,233         17,497         17,761         18,025           55         469         48.390 km         49.590 km         3         31,640         13,804         14,068         14,332         14,596         14,859         15,123         15,87         15,611         15,914         16,178         16,442         16,706         16,969         17,233         17,497         17,761         18,025           56         469         48.390 km         49.590 km         3         13,640         13,804         14,088         14,332         14,596         14,859         15,123         15,847         15,651         9,517         9,672         9,827         9,822         10,137         10,292         10,448         10,603           57         469         49.590 km         59.160 km         1         7,965         8,420         8,586         8,741         8,896         9,051         9,612         9,827         9,822         10,137         10,292         10,448					1																		
56       469       48.390 km       49.590 km       3       13,540       13,804       14,068       14,322       14,596       15,123       15,87       15,651       15,914       16,178       16,442       16,706       16,969       17,233       17,497       17,761       18,025         57       469       49.590 km       59.160 km       1       7.965       8,120       8,275       8,430       8,586       8,741       8,896       9,051       9,206       9,361       9,517       9,672       9,827       9,882       10,137       10,292       10,448       10,603         58       469       49.590 km       59.160 km       1       7.965       8,120       8,275       8,430       8,586       8,741       8,896       9,051       9,517       9,672       9,827       9,982       10,137       10,292       10,448       10,603         59       469       59.160 km       77.170 km       3       13,540       13,804       14,068       14,332       14,596       14,859       15,123       15,387       15,651       15,914       16,178       16,442       16,706       16,969       17,233       17,497       17,61       18,025         60       469	54		40.680 km	48.390 km	3	13,540			14,332														
57       469       49.590 km       59.160 km       1       7,965       8,120       8,275       8,430       8,586       8,741       8,896       9,051       9,206       9,361       9,517       9,672       9,827       9,982       10,137       10,202       10,448       10,603         58       469       49.590 km       59.160 km       3       13,540       14,302       14,352       14,556       14,859       15,123       15,387       15,651       15,914       16,178       16,442       16,706       16,969       17,233       17,497       17,614       18,025         59       469       59.160 km       77.170 km       3       13,804       14,068       14,332       14,596       14,859       15,123       15,387       15,651       15,914       16,178       16,442       16,706       16,969       17,233       17,497       17,761 kt       18,025         60       469       77.170 km       30.30 km       1       7,965       8,120       8,275       8,430       8,586       8,741       8,896       9,051       15,123       15,131       15,151       15,141       16,178       16,442       16,706       16,969       17,233       17,471       17,407					1																		
58         469         49.590 km         59.160 km         3         13,640         14,068         14,332         14,596         14,859         15,123         15,87         15,651         15,914         16,178         16,442         16,706         16,969         17,233         17,497         17,761         18,025           59         469         59.160 km         77.170 km         1         7,965         8,120         8,275         8,430         8,586         8,741         8,896         9,051         9,517         9,672         9,827         9,822         10,137         10,292         10,448         10,603           60         469         59.160 km         77.170 km         3         13,640         13,804         14,088         14,359         15,123         15,387         15,651         15,914         16,178         16,442         16,706         16,969         17,23         17,497         17,761         18,025           60         469         59.160 km         7.170 km         3         13,640         13,804         14,088         14,859         15,123         15,387         15,651         15,914         16,178         16,442         16,706         16,969         17,23         17,476         17,476					3																		
59         469         59.160 km         77.170 km         1         7,965         8,120         8,275         8,430         8,586         8,741         8,896         9,051         9,206         9,361         9,517         9,672         9,827         9,982         10,137         10,292         10,448         10,603           60         469         59.160 km         77.170 km         3         13,540         13,804         14,068         14,332         14,596         14,859         15,123         15,387         15,651         15,914         16,178         16,442         16,706         16,969         17,233         17,497         17,761         18,025           61         469         77.170 km         80.903 km         1         7,965         8,120         8,275         8,430         8,586         8,741         8,896         9,051         9,517         9,672         9,827         9,882         10,433         10,493         10,603           62         469         77.170 km         80.903 km         3         13,540         14,382         14,596         14,859         15,133         15,867         15,914         16,178         16,442         16,706         16,969         10,133         10,292					1																		
60         469         59.160 km         77.170 km         3         13,540         13,804         14,068         14,322         14,596         15,123         15,867         15,651         15,914         16,178         16,442         16,706         16,969         17,233         17,497         17,761         18,025           61         469         77.170 km         89.030 km         1         7,965         8,120         8,275         8,430         8,586         8,741         8,896         9,051         9,206         9,361         9,517         9,672         9,827         9,822         10,432         10,429         10,446         10,706         10,296         11,249         10,406         10,603         10,296         10,422         10,470         10,273         17,497         17,761         18,025           62         469         77.170 km         89.030 km         3         13,640         14,068         14,332         14,596         14,859         15,123         15,387         15,651         15,914         16,178         16,442         16,706         16,969         17,233         17,497         17,416         10,603           63         469         77.170 km         89.030 km         3         13,640					3																		
61         469         77.170 km         89.030 km         1         7.965         8.120         8.275         8.430         8.586         8.741         8.886         9.051         9.205         9.361         9.517         9.672         9.827         9.982         10.137         10.292         10.448         10.603           62         469         77.170 km         89.030 km         3         13.540         13.804         14.956         14.859         15.123         15.387         15.651         15.914         16.178         16.442         16.706         16.969         17.233         17.497         17.704         18.023           63         469         80.303 km         9.570 km         1         7.965         8.120         8.275         8.430         8.586         8.741         8.896         9.051         9.941         16.706         16.969         17.233         17.497         17.704         18.023           63         469         8.030 km         8.700 km         1         7.965         8.120         8.275         8.430         8.586         8.741         8.896         9.051         9.941         16.705         19.827         9.892         10.137         17.492         17.614         10.603 <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>					-																		
62         469         77.170 km         89.030 km         3         13,540         13,804         14,068         14,332         14,596         15,123         15,857         15,051         16,178         16,442         16,706         16,969         17,233         17,497         17,761         18,025           63         469         89.030 km         9,507 km         1         7,965         8,120         8,275         8,430         8,586         8,741         8,896         9,051         9,206         9,361         9,517         9,672         9,827         9,982         10,137         10,292         10,448         10,603																							
63 469 89.030 km 89.570 km 1 7,965 8,120 8,275 8,430 8,586 8,741 8,896 9,051 9,206 9,361 9,517 9,672 9,827 9,982 10,137 10,292 10,448 10,603																							
					1																		
					3																		

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm BKG+DEV 8/01/2014

#### Calculation Sheet Annual (Baseline + Project)

Cardno	TMR	Chainage	e   C <u>h</u> a	ainage	Direction	2051	2052	2052	2054	2055	2056
ID#	ROAD	Start	E	End	Direction	2051	2052	2053	2054	2055	2056
1	196	0.000 km			1	1,281,758	1,300,245			1,355,706	
2	196 196	0.000 km			3	1,825,692	1,852,024	1,878,356	1,904,689	1,931,021	1,957,353
3	196	0.530 km 0.530 km			1	1,060,477 1,210,094	1,075,772	1,091,068 1,245,001	1,106,363 1,262,454	1,121,659 1,279,907	1,136,954 1,297,361
5	196	0.875 km			3	1,060,477	1,227,547	1,091,068		1,121,659	1, 136, 954 1, 136, 954 1, 297, 361 1, 136, 954 1, 297, 361 1, 136, 954 1, 297, 361 1, 297, 361 1, 297, 361 1, 297, 361 1, 297, 361 373, 499 293, 399 408, 558 394, 895 408, 558 408, 558 408
6	196	0.875 km			3	1,210,094	1,227,547	1,245,001		1,121,039	1,297,361
7	196	0.950 km			1	1,060,477	1,075,772			1,121,659	1,136,954
8	196	0.950 km			3	1,210,094	1,227,547			1,279,907	1,297,361
9	196	1.329 km			1	1,060,477	1,075,772			1,121,659	1,136,954
10	196	1.329 km	ı 1.5	580 km	3	1,210,094	1,227,547	1,245,001	1,262,454	1,279,907	1,297,361
11	196	1.580 km			1	348,555	353,582	358,609	363,636	368,664	373,691
12	196	1.580 km			3	353,437	358,535	363,633	368,730	373,828	378,925
13	196	3.226 km			1	349,300	354,338	359,376	364,413	369,451	374,489
14	196	3.226 km			3	273,664	277,611	281,558	285,505	289,452	293,399
15	196	4.031 km			1	381,077	386,573	392,069	397,566	403,062	408,558
16	196	4.031 km			3	368,333	373,645	378,958	384,270	389,583	394,895
17	196	12.670 km			1	381,077	386,573	392,069	397,566	403,062	408,558
18	196	12.670 km			3	368,333	373,645	378,958	384,270	389,583	394,895
19	196	13.860 km			1	381,077	386,573	392,069	397,566	403,062	408,558
20 21	196 196	13.860 km			3	368,333	373,645	378,958	384,270	389,583	394,895
21		20.710 km 20.710 km			1 3	381,077 368,333	386,573 373,645	392,069 378,958	397,566 384,270	403,062 389,583	408,558
22	196 196	20.710 km 24.890 km			3	368,333	373,645	378,958	384,270	403,062	394,695
23	196	24.890 km			3	368,333	373,645	392,069	397,500	389,583	394 895
25	196	28.770 km			1	381,077	386,573	392,069	397,566	403,062	408,558
26	196	28.770 km			3	368,333	373,645	378,958	384,270	389,583	394,895
27	196	30.357 km			1	388,773	394,380	399,987	405,595	411,202	416,809
28	196	30.357 km			3	368,415	373,729	379,043	384,357	389,670	394,984
29	196	33.944 km			1	318,102	322,690	327,278	331,866	336,454	341,042
30	196	33.944 km			3	325,715	330,413	335,111	339,808	344,506	349,204
31	469	0.000 km			1	449,099	455,577	462,054	468,532	475,009	481,486
32	469	0.000 km			3	387,366	392,953	398,540	404,127	409,714	415,301
33	469	0.065 km			1	449,099	455,577	462,054	468,532	475,009	481,486
34	469	0.065 km			3	387,366	392,953	398,540	404,127	409,714	415,301
35	469	1.119 km			1	297,579	301,871	306,163	310,455	314,747	319,039
36	469	1.119 km			3	305,523	309,930	314,337	318,743	323,150	327,556
37	469	6.724 km			1	297,579	301,871	306,163	310,455	314,747	319,039
38	469	6.724 km			3	305,523	309,930	314,337	318,743	323,150	327,556
39	469	9.089 km			1	297,579	301,871	306,163	310,455	314,747	319,039
40	469	9.089 km			3	305,523	309,930	314,337	318,743	323,150	327,556
41	469	10.984 km			1	297,579	301,871	306,163	310,455	314,747	319,039
42	469	10.984 km			3	305,523	309,930	314,337	318,743	323,150	327,556
43 44	469 469	15.170 km 15.170 km			1	297,579 305,523	301,871 309,930	306,163 314,337	310,455 318,743	314,747 323,150	319,039 327,556
44	469	15.170 km 17.175 km			3	297,579	309,930	314,337	318,743	323,150	327,556
45	469	17.175 km			3	305,523	309,930	314,337	318,743	323,150	319,039
40	469	20.465 km			1	297,579	309,930	306,163	310,455	323,150	319.039
47	469	20.465 km			3	305,523	309,930	314,337	318,743	323,150	327,556
40	469	21.340 km			1	42,121	42,729	43.336	43,944	44,551	45.159
50	469	21.340 km			3	53,376	54,145	54,915	55,685	56,455	57,225
51	469	27.180 km			1	10,758	10,913	11,068		11,379	11,534
52	469	27.180 km			3	18,288	18,552	18,816	19,080	19,343	19,607
53	469	40.680 km			1	10,758	10,913	11,068	11,223	11,379	11,534
54	469	40.680 km			3	18,288	18,552	18,816	19,080	19,343	19,607
55	469	48.390 km			1	10,758	10,913	11,068	11,223	11,379	11,534
56	469	48.390 km			3	18,288	18,552	18,816	19,080	19,343	19,607
57	469	49.590 km			_1	10,758	10,913	11,068	11,223	11,379	11,534
58	469	49.590 km			3	18,288	18,552	18,816	19,080	19,343	19,607
59	469	59.160 km			1	10,758	10,913	11,068	11,223	11,379	11,534
60	469	59.160 km			3	18,288	18,552	18,816	19,080	19,343	19,607
61	469	77.170 km			1	10,758	10,913	11,068	11,223	11,379	11,534
62	469	77.170 km			3	18,288	18,552	18,816	19,080	19,343	19,607
63	469	89.030 km			1	10,758	10,913	11,068	11,223	11,379	11,534
64	469	89.030 km	n  89.	570 KM	3	18,288	18,552	18,816	19,080	19,343	19,607

# Bowen Basin SREIS

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm BKG+DEV 8/01/2014

#### Calculation Sheet Cumulative (Baseline + Project)

Cardno ID#	TMR ROAD	Chainage Start	Chainage End	Direction	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
1	196	0.000 km		1	616,233	1,250,972		2,576,270	3,266,545	3,975,340	4,702,634	5,448,447	6,212,670	6,995,409	7,796,645							
2	196	0.000 km		3	877,755	1,781,949	2,712,746	3,671,369	4,654,991	5,665,126	6,701,665	7,764,716	8,853,668					14,693,784				
3	196	0.530 km		1	509,848	1,035,010		2,131,580	2,702,704	3,289,156	3,890,916	4,508,003	5,140,309	5,787,939	6,450,873		7,822,505				10,749,401	
4	196	0.530 km		3	581,794	1,181,149	1,798,228	2,434,253	3,086,400		4,443,486	5,148,425	5,870,385	6,609,960	7,367,043	8,141,237	8,932,866				12,274,456	
5	196 196	0.875 km 0.875 km	0.950 km 0.950 km	3	509,881 581,782	1,035,183	1,576,464	2,133,652 2,432,265	2,705,578 3,084,013	3,292,476 3,753,157	3,894,740 4,439,767	4,512,300 5,143,831	5,145,120 5,865,341	5,793,198 6,604,298	6,456,338 7,360,667	7,134,720 8,134,480	7,828,559 8,925,775	8,537,765 9,734,536	9,262,032		10,756,165	13.143.855
7	196	0.950 km	1.329 km	1	509,881	1,035,183	1,576,464	2,432,205	2,705,578	3,292,476	3,894,740	4,512,300	5,145,120	5,793,198	6,456,338	7,134,720	7,828,559	8,537,765		10,001,451		
8	196	0.950 km	1.329 km	3	581.782	1,181,040	1,797,872	2,432,265	3,084,013	3,753,157	4,439,767	5,143,831	5,865,341	6,604,298	7,360,667	8,134,480	8,925,775					
9	196	1.329 km	1.580 km	1	509,881	1,035,183	1,576,464	2,133,652	2,705,578	3,292,476	3,894,740	4,512,300	5,145,120	5,793,198	6,456,338	7,134,720	7,828,559				10,756,165	
10	196	1.329 km	1.580 km	3	581,782	1,181,040	1,797,872	2,432,265	3,084,013	3,753,157	4,439,767	5,143,831	5,865,341	6,604,298	7,360,667	8,134,480	8,925,775				12,265,363	13,143,855
11	196	1.580 km	3.226 km	1	167,610	340,374	518,849	702,962	891,545	1,084,832	1,283,217	1,486,630	1,695,034	1,908,430	2,126,618	2,349,780	2,578,131	2,811,582	3,049,825	3,292,952	3,541,106	3,794,197
12	196		3.226 km	3	169,928	344,976	525,242	710,714	901,185	1,096,697	1,297,319	1,503,039	1,713,849	1,929,752	2,150,710	2,376,757	2,607,930		3,085,553	3,331,965		3,840,066
13	196	3.226 km		1	167,968	341,101	519,955	704,459	893,443	1,087,141	1,285,949	1,489,796	1,698,644	1,912,494	2,131,148	2,354,786	2,583,624		3,056,324	3,299,970		3,802,286
14	196	3.226 km		3	131,575	267,120	406,732	550,400	697,916	849,322	1,004,688	1,164,000	1,327,254	1,494,448	1,665,548		2,019,599					2,973,677
15	196	4.031 km		1	183,210	371,916	566,119	765,817	971,013	1,181,704	1,397,892	1,619,576	1,846,756	2,079,433	2,317,606	2,561,275	2,810,440		3,325,260	3,590,915		4,138,712
16 17	196 196	4.031 km 12.670 km		3	177,083 183,210	359,479 371,916	547,187 566,119	740,207 765,817	938,540 971,013	1,142,186	1,351,144	1,565,414	1,784,997	2,009,892 2,079,433	2,240,100 2,317,606	2,475,621 2,561,275	2,716,454 2,810,440		3,214,057 3,325,260	3,470,827 3,590,915		4,000,306 4,138,712
18	196	12.670 km		3	177,083	359,479	547,187	740,207	938,540	1,142,186	1,351,144	1,565,414	1,784,997	2,079,433	2,240,100	2,475,621	2,810,440		3,325,200	3,470,827		4,000,306
19	196	13.860 km		1	183,210	371,916	566,119	765,817	971,013	1,181,704	1,397,892	1,619,576	1,846,756	2,079,433	2,317,606	2,561,275	2,810,440			3,590,915		4,138,712
20	196	13.860 km		3	177,083	359,479	547.187	740,207	938,540	1,142,186	1,351,144	1,565,414	1,784,997	2,009,892	2,240,100	2,475,621	2,716,454			3,470,827		4.000.306
21	196	20.710 km	24.890 km	1	183,210	371,916	566,119	765,817	971,013	1,181,704	1,397,892	1,619,576	1,846,756	2,079,433	2,317,606		2,810,440			3,590,915		4,138,712
22	196	20.710 km	24.890 km	3	177,083	359,479	547,187	740,207	938,540	1,142,186	1,351,144	1,565,414	1,784,997	2,009,892	2,240,100	2,475,621	2,716,454	2,962,599	3,214,057	3,470,827	3,732,910	4,000,306
23	196	24.890 km		1	183,210	371,916	566,119	765,817	971,013	1,181,704	1,397,892	1,619,576	1,846,756	2,079,433	2,317,606			3,065,102	3,325,260	3,590,915		4,138,712
24	196	24.890 km		3	177,083	359,479	547,187	740,207	938,540	1,142,186	1,351,144		1,784,997	2,009,892	2,240,100		2,716,454		3,214,057		3,732,910	4,000,306
25	196	28.770 km		1	183,210	371,916	566,119	765,817	971,013	1,181,704	1,397,892	1,619,576	1,846,756	2,079,433	2,317,606	2,561,275				3,590,915		4,138,712
26	196	28.770 km		3	177,083	359,479	547,187	740,207	938,540	1,142,186	1,351,144	1,565,414	1,784,997	2,009,892	2,240,100	2,475,621	2,716,454		3,214,057	3,470,827		4,000,306
27 28	196 196	30.357 km 30.357 km		1	186,910 177,123	379,427 359,559	577,552 547,310	781,284 740,373	990,623 938,751	1,205,569	1,426,123	1,652,284	1,884,052	2,121,428	2,364,411 2,240,604	2,613,001 2,476,177	2,867,198 2,717,064	3,127,003	3,392,415 3,214,779	3,663,435 3,471,607		4,222,295 4,001,205
20	196	33.944 km		3	152,934	310,455	472,565	639,262	810,548	986,421	1,166,883	1,351,932	1,541,570	1,735,796	1,934,609	2,476,177	2,717,084		2,775,744	2,997,497		3,454,769
30	196	33.944 km		3	156,594	317,885	483.875	654,562	829.947	1.010.030	1.194.810	1.384.289	1,578,465	1.777.339	1,980,911	2,138,011	2,340,001	2.619.814	2.842.177	3.069.238		3,537,453
31	469	0.000 km		1	215,913	438,304	667,172	902,517	1,144,340	1,392,640	1,647,418	1,908,673	2,176,405	2,450,770		3,022,844	3,319,508	3,624,567	3,935,070	4,249,652		4,900,123
32	469	0.000 km		3	186,234	378,054	575,462	778,456	987,038	1,201,207	1,420,962	1,646,305	1,877,235	2,114,962	2,360,536	2,637,618	2,914,365		3,506,475	3,788,258		4,383,198
33	469	0.065 km	1.119 km	1	215,913	438,304	667,172	902,517	1,144,340	1,392,640	1,647,418	1,908,673	2,176,405	2,450,615	2,731,302	3,018,466	3,312,108	3,612,228	3,918,824	4,231,899	4,551,450	4,877,479
34	469	0.065 km		3	186,234	378,054	575,462	778,456	987,038		1,420,962	1,646,305		2,113,751	2,355,855	2,603,546	2,856,823		3,380,140	3,650,178		4,207,017
35	469	1.119 km		1	143,067	290,426	442,077	598,019	758,254	922,781	1,091,600		1,442,114		1,809,796		2,194,646		2,596,664	2,804,110		3,231,880
36	469	1.119 km	6.724 km	3	146,886	298,179	453,878	613,984	778,497	947,416	1,120,742	1,298,474	1,480,613	1,667,159	1,858,111	2,053,469	2,253,235	2,457,406	2,665,985	2,878,970		3,318,160
37 38	469 469	6.724 km	9.089 km	1	143,067	290,426	442,077	598,019	758,254	922,781	1,091,600	1,264,711	1,442,114	1,623,809	1,809,796	2,000,075	2,194,646	2,393,509	2,596,664	2,804,110		3,231,880
38	469	6.724 km 9.089 km	9.089 km	3	146,886 143,067	298,179 290,426	453,878 442.077	613,984 598,019	778,497 758,254	947,416 922,781	1,120,742	1,298,474	1,480,613	1,667,159	1,858,111	2,053,469 2,000,075	2,253,235 2,194,646	2,457,406 2,393,509	2,665,985 2,596,664	2,878,970 2,804,110		3,318,160 3,231,880
40	469	9.089 km		3	146,886	290,420	442,077	613,984	756,254	922,781	1,120,742	1,298,474	1,442,114	1,623,809	1,858,111	2,000,075	2,194,646	2,393,509	2,596,664	2,804,110		3,318,160
40	469	10.984 km		1	143.067	290,426	442.077	598.019	758.254	922,781	1.091.600	1.264.711	1,442,114	1.623.809	1.809.796		2,233,235	2.393.509	2,596,664	2,804,110		3.231.880
42	469	10.984 km		3	146,886	298,179	453,878	613,984	778,497		1,120,742	1,298,474	1,480,613	1,667,159	1,858,111	2,053,469	2,253,235		2,665,985	2,878,970		3,318,160
43	469	15.170 km		1	143,067	290,426	442,077	598,019	758,254		1,091,600	1,264,711	1,442,114	1,623,809	1,809,796	2,000,075	2,194,646		2,596,664	2,804,110		3,231,880
44	469	15.170 km	17.175 km	3	146,886	298,179	453,878	613,984	778,497	947,416	1,120,742	1,298,474	1,480,613	1,667,159	1,858,111	2,053,469	2,253,235	2,457,406	2,665,985	2,878,970	3,096,362	3,318,160
45	469	17.175 km		1	143,067	290,426	442,077	598,019	758,254	922,781	1,091,600	1,264,711	1,442,114	1,623,809	1,809,796		2,194,646		2,596,664	2,804,110		3,231,880
46	469	17.175 km		3	146,886	298,179	453,878	613,984	778,497	947,416	1,120,742	1,298,474	1,480,613	1,667,159	1,858,111	2,053,469	2,253,235	2,457,406	2,665,985	2,878,970		3,318,160
47	469	20.465 km		1	143,067	290,426	442,077	598,019	758,254	922,781	1,091,600	1,264,711	1,442,114	1,623,809	1,809,796	2,000,075	2,194,646	2,393,509	2,596,664	2,804,110		3,231,880
48 49	469 469	20.465 km 21.340 km		3	146,886 20,251	298,179 41,109	453,878 62,574	613,984 84,647	778,497 107,328	947,416 130.616	1,120,742	1,298,474	1,480,613 204,126	1,667,159 229,844	1,858,111 256,170	2,053,469 283,103	2,253,235 310.644	2,457,406 338,792	2,665,985 367,548	2,878,970 396,911	3,096,362 426,882	3,318,160 457,460
49 50	469	21.340 km 21.340 km		3	20,251	52,092	79,293	107,264	136,005	165,516	154,512 195,796	226,846	204,126	229,844	324,616	283,103	310,644	429,314	465,753	502,962	426,882	457,460
50	469	27.180 km		3	5,172	10,499	15,982	21,619	27,412	33,360	39,463	45,721	52,134	58,703	65,426	72,305	79,339	86,528	93,873	101,372		116,837
52	469	27.180 km		3	8,792	17,849	27.169	36,753	46,600	56,712	67.087	77,726	88,628	99,795	111,225	122,919	134,877	147.098	159,584	172,333	185,346	198,622
53	469	40.680 km		1	5,172	10,499	15,982	21,619	27,412	33,360	39,463	45,721	52,134	58,703	65,426	72,305	79,339	86,528	93,873	101,372		116,837
54	469	40.680 km		3	8,792	17,849	27,169	36,753	46,600	56,712	67,087	77,726	88,628	99,795	111,225	122,919	134,877	147,098	159,584	172,333	185,346	198,622
55	469	48.390 km		1	5,172	10,499	15,982	21,619	27,412	33,360	39,463	45,721	52,134	58,703	65,426	72,305	79,339	86,528	93,873	101,372		116,837
56	469	48.390 km		3	8,792	17,849	27,169	36,753	46,600	56,712	67,087	77,726	88,628	99,795	111,225	122,919	134,877	147,098	159,584	172,333	185,346	198,622
57	469	49.590 km		1	5,172	10,499	15,982	21,619	27,412	33,360	39,463	45,721	52,134	58,703	65,426	72,305	79,339	86,528	93,873	101,372		116,837
58	469	49.590 km		3	8,792	17,849	27,169	36,753	46,600	56,712	67,087	77,726	88,628	99,795	111,225	122,919	134,877	147,098	159,584	172,333	185,346	198,622
59 60	469	59.160 km		1	5,172	10,499	15,982 27,169	21,619	27,412	33,360	39,463	45,721	52,134	58,703	65,426	72,305	79,339	86,528	93,873	101,372		116,837
60	469	77.170 km		3	8,792 5,172	17,849 10,499	15,982	36,753 21,619	46,600 27,412	56,712 33,360	67,087 39,463	77,726	88,628 52,134	99,795 58,703	111,225 65,426	72,305	134,877 79,339	147,098 86,528	159,584 93,873	172,333 101,372	185,346 109,027	198,622 116,837
62	469	77.170 km		3	8,792	17,849	27,169	36,753	46,600	56,712	67,087	77,726	88,628	99,795	111,225	122,919	134,877	147,098	159,584	172,333	185,346	198,622
63	469	89.030 km		1	5,172	10,499	15,982	21,619	27,412	33,360	39,463	45,721	52,134	58,703	65,426	72,305	79,339	86,528	93,873	101,372	109,027	116,837
64	469	89.030 km		3	8,792	17,849	27,169	36,753	46,600	56,712	67,087	77,726	88,628	99,795	111,225	122,919	134,877	147,098	159,584	172,333	185,346	198,622
			-																			

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xism cuml\_BKG+DEV 8/01/2014

#### Calculation Sheet Cumulative (Baseline + Project)

Cardno ID#	TMR ROAD	Chainage Start	Chainage D End	Direction	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
1	196	0.000 km		1						19,893,901												
2	196	0.000 km		3						28,344,676												
3	196 196	0.530 km 0.530 km		1 3						16,459,790 18,791,068												
	196	0.875 km		1						16,466,607												
6	196	0.875 km		3						18,781,287												
7	196	0.950 km		1						16,466,607												
8	196	0.950 km		3						18,781,287												
9	196	1.329 km		1						16,466,607												
10	196 196	1.329 km 1.580 km		3	4,039,803		4,583,599	4,856,745		18,781,287 5,418,120	19,781,942 5,706,348		6,297,885			25,047,015						31,941,061
12	196	1.580 km		3	4,052,354		4,585,599	4,917,392	5,199,462		5,778,895	6,076,258	6,378,719	6,686,277	6,998,933	7,316,687	7,639,538			8,638,678		
13	196	3.226 km		1	4,060,974		4,593,374	4,867,104	5,145,872		5,718,522	6,012,404	6,311,323	6,615,281	6,924,277	7,238,311	7,557,383			8,544,826		
14	196	3.226 km	4.030 km	3	3,176,306	3,382,873	3,593,390	3,807,847	4,026,252	4,248,603	4,474,902	4,705,148	4,939,340		5,419,567	5,665,601	5,915,582		6,427,386	6,689,208	6,954,977	7,224,694
15	196	4.031 km		1	4,420,855		5,001,631	5,300,263	5,604,392		6,229,137	6,549,755	6,875,868		7,544,585	7,887,187	8,235,286		8,947,973	9,312,560		10,058,225
16	196	4.031 km		3	4,273,014		4,834,367	5,123,012	5,416,970		6,020,823	6,330,719	6,645,926	6,966,447	7,292,279	7,623,425	7,959,882		8,648,735			
17 18	196 196	12.670 km 12.670 km		1 3	4,420,855 4,273,014		5,001,631 4,834,367	5,300,263 5,123,012	5,604,392 5,416,970		6,229,137 6,020,823	6,549,755 6,330,719	6,875,868 6,645,926	7,207,478 6,966,447	7,544,585	7,887,187	8,235,286 7,959,882	8,588,881 8,301,653	8,947,973 8,648,735	9,312,560 9,001,131		0,058,225 9,721,859
19	196	13.860 km		1	4,273,014		5.001.631	5,300,263	5.604.392		6.229.137	6,549,755	6,875,868	7,207,478		7,887,187	8,235,286			9,001,131		10.058.225
20	196	13.860 km		3	4,273,014		4,834,367	5,123,012	5,416,970		6,020,823	6,330,719	6,645,926	6,966,447	7,292,279	7,623,425	7,959,882		8,648,735			
21	196	20.710 km	24.890 km	1	4,420,855	4,708,495	5,001,631	5,300,263	5,604,392	5,914,016	6,229,137	6,549,755	6,875,868	7,207,478	7,544,585	7,887,187	8,235,286	8,588,881	8,947,973	9,312,560	9,682,645	10,058,225
22	196	20.710 km		3	4,273,014		4,834,367	5,123,012	5,416,970		6,020,823	6,330,719	6,645,926	6,966,447	7,292,279	7,623,425	7,959,882			9,001,131		
23 24	196 196	24.890 km 24.890 km		1	4,420,855		5,001,631 4.834,367	5,300,263 5,123,012	5,604,392 5,416,970		6,229,137 6.020.823	6,549,755	6,875,868 6,645,926	7,207,478	7,544,585	7,887,187	8,235,286 7,959,882		8,947,973 8.648.735	9,312,560 9.001.131		0.721.859
24	196	24.690 km		3	4,273,014		5,001,631	5,300,263			6,020,823	6,549,755	6,875,868	7,207,478	7,544,585		8,235,286		8,947,973	9,001,131		10,058,225
26	196	28.770 km		3	4,273,014		4,834,367	5,123,012			6,020,823	6,330,719		6,966,447	7,292,279	7,623,425	7,959,882		8,648,735	9,001,131		
27	196	30.357 km		1	4,510,137		5,102,641	5,407,304	5,717,575		6,354,938	6,682,030	7,014,730	7,353,037	7,696,951	8,046,472	8,401,601	8,762,338	9,128,681	9,500,632		
28	196	30.357 km		3	4,273,974		4,835,453	5,124,163	5,418,187		6,022,176	6,332,141	6,647,419		7,293,918	7,625,137	7,961,671	8,303,518		9,003,153		
29	196	33.944 km		1	3,690,286		4,175,086	4,424,367	4,678,237		5,199,740	5,467,374	5,739,596	6,016,405		6,583,789	6,874,363			7,773,612		
30 31	196 469	33.944 km 0.000 km		3	3,778,607 5,234,458		4,275,010 5,920,137	4,530,257 6,272,598	4,790,203 6,631,504		5,324,188 7,368,224	5,598,227 7,746,266	5,876,964 8,130,592	6,160,399	6,448,531 8,918,675	6,741,361 9,322,433	7,038,890			7,959,661		8,596,997
31	469	0.000 km		3	4,684,245		5,920,137	5,591,842	5,904,814		6,543,422	6,870,841	7,202,337		7,882,090	9,322,433	8,584,190			9,679,244		10,437,214
33	469	0.065 km		1	5,209,985		5,894,430	6,246,369	6,604,785			7,718,897	8,103,222	8,494,025	8,891,305	9,295,063		10,122,011				11,853,634
34	469	0.065 km	1.119 km	3	4,493,816		5,084,177	5,387,738	5,696,885	6,011,620	6,331,942	6,657,851	6,989,346	7,326,429	7,669,099	8,017,356	8,371,200	8,730,630	9,095,648	9,466,253		10,224,224
35	469	1.119 km		1	3,452,203			4,138,924	4,376,415		4,864,273			5,628,250	5,891,493	6,159,028	6,430,855			7,272,088		
36	469	1.119 km		3	3,544,364		4,009,994	4,249,418	4,493,249		4,994,131	5,251,182	5,512,640		6,048,775	6,323,452	6,602,536			7,466,227		
37 38	469 469	6.724 km 6.724 km		3	3,452,203 3,544,364		3,905,725	4,138,924 4,249,418	4,376,415 4,493,249		4,864,273 4,994,131	5,114,640 5,251,182	5,369,299 5,512,640	5,628,250 5,778,504	5,891,493 6,048,775	6,159,028 6,323,452	6,430,855 6,602,536			7,272,088 7,466,227	7,561,084	
39	469	9.089 km		1	3,452,203		3,905,725	4,138,924	4,376,415		4,864,273		5,369,299	5,628,250	5,891,493	6,159,028	6,430,855			7,272,088		
40	469	9.089 km		3	3,544,364		4,009,994	4,249,418	4,493,249		4,994,131	5,251,182	5,512,640		6,048,775		6,602,536			7,466,227		
41	469	10.984 km		1	3,452,203		3,905,725	4,138,924	4,376,415		4,864,273	5,114,640	5,369,299	5,628,250	5,891,493	6,159,028	6,430,855			7,272,088		
42	469	10.984 km		3	3,544,364		4,009,994	4,249,418	4,493,249			5,251,182	5,512,640	5,778,504	6,048,775	6,323,452	6,602,536	6,886,026		7,466,227		
43	469 469	15.170 km 15.170 km		1	3,452,203 3,544,364		3,905,725	4,138,924 4,249,418	4,376,415		4,864,273 4,994,131	5,114,640 5,251,182	5,369,299 5,512,640	5,628,250 5,778,504	5,891,493 6.048,775	6,159,028 6,323,452	6,430,855 6,602,536			7,272,088		
44	469	17.175 km		1	3,452,203		3,905,725			4,618,198	4,864,273	5,114,640	5,369,299	5,628,250	5,891,493	6,159,028	6,430,855			7,272,088		
46	469	17.175 km		3	3,544,364		4,009,994	4,249,418		4,741,487	4,994,131	5,251,182	5,512,640	5,778,504	6,048,775	6,323,452	6,602,536	6,886,026	7,173,923	7,466,227		
47	469	20.465 km	21.340 km	1	3,452,203	3,676,818	3,905,725	4,138,924	4,376,415	4,618,198	4,864,273	5,114,640	5,369,299	5,628,250	5,891,493	6,159,028	6,430,855	6,706,974	6,987,385	7,272,088	7,561,084	7,854,371
48	469	20.465 km		3	3,544,364		4,009,994	4,249,418			4,994,131	5,251,182	5,512,640	5,778,504	6,048,775	6,323,452	6,602,536	6,886,026	7,173,923	7,466,227		
49 50	469 469	21.340 km 21.340 km		1 3	488,646 619,208	520,440 659,496	552,840 700,554	585,849 742,382	619,465 784,980		688,519 872,485	723,958 917,392	760,004 963,070	796,657	833,918 1,056,733	871,787	910,263 1,153,477	949,346 1,203,003	989,038 1,253,299	1,029,336		
50	469	27.180 km		1	124,802	132,922	141.197	149,627	158,213		175,850	184,901	194,107	203.468	212.985	222,657	232,484	242.466	252.603	262.895	273,343	
52	469	27.180 km		3	212,163	225,967	240,035	254,367	268,962		298,944	314,331	329,982	345,896	362,075	378,516	395,222	412,192	429,425	446,922		
53	469	40.680 km	48.390 km	1	124,802	132,922	141,197	149,627	158,213	166,954	175,850	184,901	194,107	203,468	212,985	222,657	232,484	242,466	252,603	262,895	273,343	283,946
54	469	40.680 km		3	212,163	225,967	240,035	254,367	268,962		298,944	314,331	329,982	345,896	362,075	378,516	395,222	412,192	429,425	446,922		
55	469	48.390 km		1	124,802	132,922	141,197	149,627	158,213		175,850	184,901	194,107	203,468	212,985	222,657	232,484	242,466	252,603	262,895		
56 57	469 469	48.390 km 49.590 km		3	212,163 124,802	225,967 132,922	240,035 141,197	254,367 149,627	268,962		298,944 175,850	314,331 184,901	329,982 194,107	345,896 203,468	362,075 212,985	378,516 222,657	395,222 232,484	412,192 242,466	429,425 252,603	446,922 262,895		
58	469	49.590 km		3	212,163	225,967	240,035	254,367	268,962		298,944	314,331	329,982	345,896	362,075	378,516	395,222	412,192	429,425	446,922		
59	469	59.160 km		1	124,802	132,922	141,197	149,627	158,213		175,850	184,901	194,107	203,468	212,985	222,657	232,484	242,466	252,603	262,895		
60	469	59.160 km		3	212,163	225,967	240,035	254,367	268,962		298,944	314,331	329,982	345,896	362,075	378,516	395,222	412,192	429,425	446,922		
61	469	77.170 km		1	124,802	132,922	141,197	149,627	158,213		175,850	184,901	194,107	203,468	212,985	222,657	232,484	242,466	252,603	262,895	273,343	
62	469	77.170 km		3	212,163	225,967	240,035	254,367	268,962		298,944	314,331	329,982	345,896	362,075	378,516	395,222	412,192	429,425	446,922	464,683	
63 64	469 469	89.030 km 89.030 km		1	124,802 212,163	132,922 225,967	141,197 240,035	149,627 254,367	158,213 268,962		175,850 298,944	184,901 314,331	194,107 329,982	203,468 345,896	212,985 362,075	222,657 378,516	232,484 395,222	242,466 412,192	252,603 429,425	262,895 446,922	273,343 464,683	
	400	100.000 Mill	55.57 0 Kill	0	212,100	220,007	2-10,000	204,007	200,002	200,021	200,044	014,001	020,002	040,000	002,010	070,010	000,222	712,102	420,420	440,022	,000	402,101
			-																			

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm cuml\_BKG+DEV 8/01/2014

#### Calculation Sheet Cumulative (Baseline + Project)

Cardno	TMR	Chainage	Chainage	Direction	2051	2052	2053	2054	2055	2056
ID#	ROAD 196	Start	End	Direction			2053 37,733,765			
2	196	0.000 km 0.000 km		3			53,755,207			
3	196	0.530 km		1			31,219,806			
4	196	0.530 km	0.875 km	3	33,160,990	34,388,538	35,633,538	36,895,992	38,175,900	39,473,260
5	196	0.875 km		1			31,226,613		33,454,635	34,591,588
6	196 196	0.875 km 0.950 km		3			35,623,704 31,226,613		33,454,635	
8	196	0.950 km		3			35,623,704		38,166,065	39.463.426
9	196	1.329 km		1			31,226,613		33,454,635	34,591,588
10	196	1.329 km	1.580 km	3	33,151,156	34,378,703	35,623,704	36,886,158	38,166,065	39,463,426
11	196	1.580 km	3.226 km	1	9,557,208	9,910,790	10,269,399	10,633,036	11,001,699	11,375,390
12	196	1.580 km		3			10,405,864		11,148,422	11,527,347
13	196	3.226 km		1		9,931,948		10,655,737	11,025,188	11,399,678
14	196	3.226 km		3		7,775,968		8,343,030	8,632,482	8,925,881
15 16	196 196		12.670 km	1			11,217,944		12,018,571	12,427,129
16	196	4.031 km 12.670 km		3			10,842,794 11,217,944		12 018 571	12,011,542
18	196	12.670 km		3			10,842,794		11.616.647	12.011.542
19	196	13.860 km		1			11,217,944		12,018,571	12,427,129
20	196	13.860 km	20.710 km	3	10,090,191	10,463,837	10,842,794	11,227,064	11,616,647	12,011,542
21	196	20.710 km		1	10,439,302	10,825,874	11,217,944	11,615,509	12,018,571	12,427,129
22	196	20.710 km		3			10,842,794		11,616,647	12,011,542
23	196	24.890 km		1			11,217,944		12,018,571	12,427,129
24 25	196 196	24.890 km 28.770 km		3			10,842,794 11,217,944		12,018,571	12,011,542
25	196	28.770 km		3			10,842,794		11 616 647	12 011 542
20	196	30.357 km		1			11,444,495		12.261.291	12.678.101
28	196	30.357 km		3			10,845,230		11,619,257	12,014,241
29	196	33.944 km		1		9,036,843			10,032,440	10,373,482
30	196	33.944 km	35.560 km	3	8,922,712	9,253,125	9,588,236	9,928,044	10,272,551	10,621,755
31	469	0.000 km		1			13,247,734		14,191,275	14,672,762
32	469	0.000 km		3			11,616,073		12,429,914	12,845,215
33	469	0.065 km		1			13,220,365		14,163,906	14,645,392
34 35	469 469	0.065 km 1.119 km		3		11,004,543 8,453,821	11,403,082 8,759,984		12,216,923 9,385,186	9 704 225
35	469	1.119 km		3		8,453,821		9,070,439	9,385,186	9,704,225
37	469	6.724 km		1		8,453,821		9,070,439	9,385,186	9.704.225
38	469	6.724 km		3		8,679,507			9,635,736	9,963,292
39	469		10.984 km	1		8,453,821		9,070,439	9,385,186	9,704,225
40	469	9.089 km	10.984 km	3	8,369,577	8,679,507	8,993,843	9,312,586	9,635,736	9,963,292
41	469		15.170 km	1		8,453,821			9,385,186	9,704,225
42	469		15.170 km	3		8,679,507			9,635,736	9,963,292
43 44	469 469	15.170 km 15.170 km		1		8,453,821 8,679,507		9,070,439 9,312,586	9,305,100	9,704,225
44	469		20.465 km	3		8,453,821	8,759,984	9,070,439		
46	469	17.175 km		3		8,679,507		9,312,586		
47	469	20.465 km		1					9,385,186	
48	469	20.465 km	21.340 km	3	8,369,577	8,679,507	8,993,843	9,312,586	9,635,736	9,963,292
49	469	21.340 km		1		1,196,606		1,283,886		
50	469	21.340 km		3	1,462,182		1,571,243		1,683,383	1,740,608
51	469	27.180 km		1	294,703	305,616	316,685		339,286	350,820
52 53	469 469	27.180 km 40.680 km		3	500,996 294,703	519,548 305,616	538,364 316,685	557,444 327,908	576,787 339,286	596,394 350,820
53	469	40.680 km		3	294,703	519,548	538,364	327,908 557,444	339,286 576,787	596,394
55	469	48.390 km		1	294,703	305,616		327,908	339,286	350,820
56	469	48.390 km		3	500,996	519,548	538,364	557,444	576,787	596,394
57	469	49.590 km	59.160 km	_1	294,703	305,616	316,685	327,908	339,286	350,820
58	469	49.590 km	59.160 km	3	500,996	519,548	538,364	557,444	576,787	596,394
59	469	59.160 km		1	294,703	305,616	316,685	327,908	339,286	350,820
60	469		77.170 km	3	500,996	519,548	538,364	557,444	576,787	596,394
60	469	77.170 km	89.030 km	1	294,703	305,616	316,685 538,364	327,908 557,444	339,286	350,820 596,394
61		77 170 /							576,787	
61 62	469	77.170 km		3	500,996	519,548				
61			89.570 km	3 1 3	500,996 294,703 500,996	305,616 519,548	316,685 538,364	327,908 557,444	339,286 576,787	350,820

# Bowen Basin SREIS

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xism cuml BKG+DEV 8/01/2014

Annual Project ESA Loadings as a Percentage of the Annual Baseline ESA

Cardno ID#	TMR ROAD	Chainage Start	Chainage End		2015							2022	2023			2026						
1	196	0.000 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2	196	0.000 km		3	0.0%	0.0%	0.0%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
3 4	196 196	0.530 km 0.530 km		1	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
5	196	0.530 km		1	0.0%	0.0%	0.1%	0.3%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.0%
6	196	0.875 km		3	0.0%	0.0%	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7	196	0.950 km		1	0.0%	0.0%	0.2%	0.3%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
8	196		1.329 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
9	196	1.329 km	1.580 km	1	0.0%	0.0%	0.2%	0.3%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
10	196	1.329 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
11	196	1.580 km		1	0.0%	0.1%	0.5%	0.8%	0.5%	0.3%	0.3%	0.3%	0.3%	0.3%	0.2%	0.1%	0.2%	0.2%	0.1%	0.1%	0.1%	0.0%
12	196	1.580 km		3	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
13 14	196 196	3.226 km 3.226 km		3	0.0%	0.1%	0.5%	0.8%	0.5%	0.3%	0.3%	0.3%	0.3%	0.3%	0.2%	0.1%	0.2%	0.2%	0.1%	0.1%	0.1%	0.0%
15	196	4.031 km		1	0.0%	0.0%	0.0%	0.2 %	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
16	196	4.031 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
17	196	12.670 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18	196	12.670 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
19	196	13.860 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
20	196	13.860 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
21	196	20.710 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.09
22 23	196 196	20.710 km 24.890 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
23	196	24.890 km 24.890 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
25	196	28.770 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
26	196	28.770 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
27	196	30.357 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
28	196	30.357 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
29	196	33.944 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
30	196	33.944 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
31	469	0.000 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	1.3%	1.0%	1.6%	1.3%	0.5%	0.8%	0.7%
32 33	469 469	0.000 km 0.065 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	11.9% 0.0%	9.3% 0.0%	14.8% 0.0%	11.5% 0.0%	4.3%	7.4%	6.3% 0.0%
34	469	0.065 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
35	469	1.119 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
36	469	1.119 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
37	469	6.724 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
38	469	6.724 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
39	469	9.089 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
40 41	469 469	9.089 km	10.984 km 15.170 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
41	469	10.984 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.09
43	469	15.170 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44	469	15.170 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45	469	17.175 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
46	469	17.175 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
47	469	20.465 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
48	469	20.465 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
49 50	469 469	21.340 km 21.340 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
50	469	27.180 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
52	469	27.180 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
53	469	40.680 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
54	469	40.680 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
55	469	48.390 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.09
56	469	48.390 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.09
57 58	469 469	49.590 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0
58 59	469	49.590 km 59.160 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0
59 60	469	59.160 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0
61	469	77.170 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0
62	469		89.030 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
63	469		89.570 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	469	00 020 km	89.570 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm WD%eachyear 8/01/2014

#### Calculation Sheet Annual Project ESA Loadings as a

Percentage of the Annual Baseline ESA

		ne Annual		ESA																		
Cardno	TMR	Chainage		Direction	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
ID#	ROAD	Start	End																			
1	196		0.530 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2	196	0.000 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
3	196	0.530 km	0.875 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
4	196	0.530 km	0.875 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
5	196	0.875 km	0.950 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
6	196	0.875 km	0.950 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7	196	0.950 km	1.329 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
8	196	0.950 km	1.329 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
9	196	1.329 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
10	196	1.329 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
11	196	1.580 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
12	196		3.226 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
13	196	3.226 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
14	196	3.226 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
15	196		12.670 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
16	196		12.670 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
17	196		13.860 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
17	196		13.860 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
19	196		20.710 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
20	196		20.710 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
21	196	20.710 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%
22	196	20.710 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
23	196	24.890 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
24	196	24.890 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
25	196	28.770 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
26	196	28.770 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
27	196	30.357 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
28	196	30.357 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
29	196	33.944 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
30	196	33.944 km	35.560 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
31	469	0.000 km	0.065 km	1	0.5%	0.3%	0.0%	0.1%	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
32	469	0.000 km	0.065 km	3	5.0%	3.0%	0.3%	1.3%	1.2%	0.3%	0.8%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
33	469	0.065 km	1.119 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
34	469	0.065 km	1.119 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
35	469	1.119 km	6.724 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
36	469	1.119 km		3	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
37	469	6.724 km	9.089 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
38	469	6.724 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
39	469	9.089 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
40	469		10.984 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
41	469		15.170 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
42	469		15.170 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
43	469		17.175 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44	469		17.175 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44	469		20.465 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45	469	17.175 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
40	469		20.465 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
47	469	20.465 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
40	469	20.465 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
49 50	469						0.0%				0.0%		0.0%									
		21.340 km			0.0%	0.0%		0.0%	0.0%	0.0%		0.0%			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
51	469	27.180 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
52	469	27.180 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
53	469		48.390 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
54	469	40.680 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
55	469		49.590 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
56	469	48.390 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
57	469	49.590 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
58	469	49.590 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
59	469	59.160 km			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
60	469		77.170 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
61	469	77.170 km	89.030 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
62	469	77.170 km	89.030 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
63	469	89.030 km	89.570 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
64	469	89.030 km	89.570 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm WD%eachyear 8/01/2014

#### Calculation Sheet Annual Project ESA Loadings as a

#### Percentage of the Annual Baseline ESA

44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.		ige of th	e Annual		ESA						
1000       0000       0000       0000       0000       0000       0000       00000         3       198       0.00000       0.00000       0.00000       0.00000       0.00000       0.00000       0.000000       0.000000       0.000000       0.000000       0.000000       0.000000       0.000000       0.000000       0.000000       0.000000       0.000000       0.000000       0.000000       0.000000       0.000000       0.00000000000000000000000000000000000		TMR	Chainage	Chainage	Direction		2052	2053	2054	2055	2056
2       196       0.000 m       0.500 m       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         4       196       0.530 m       0.750 m       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         5       196       0.550 m       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0	ID#	ROAD	Start	End		2001		2000	2004		2000
3       1986       0.538 um       0.678 im       1       0.076       0.076       0.076       0.076         5       198       0.538 um       0.578 im       1       0.076       0.076       0.076       0.076       0.076         7       196       0.658 um       1       0.076       0.076       0.076       0.076       0.076         8       196       0.658 um       1.228 um       3       0.076       0.076       0.076       0.076       0.076         9       198       1.328 um       1.508 um       3       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076 <td></td> <td>196</td> <td>0.000 km</td> <td>0.530 km</td> <td>1</td> <td>0.0%</td> <td>0.0%</td> <td>0.0%</td> <td>0.0%</td> <td>0.0%</td> <td>0.0%</td>		196	0.000 km	0.530 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
3       1986       0.550 km       0.575 km       1       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         5       198       0.875 km       1       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         7       198       0.875 km       1       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         9       198       0.950 km       1.328 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0											
4       1986       0.875 km       3       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076       0.076											
5       1986       0.875 km       0.690 km       1       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.00/	0.00/
44         469         15.170 km         17.175 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           45         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           46         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           47         469         20.465 km         21.340 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           48         469         20.465 km         21.340 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           469         21.340 km         27.180 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%										0.0%	0.0%
44         469         15.170 km         17.17 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           45         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           46         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           47         469         20.465 km         21.340 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           49         469         21.340 km         27.180 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           50         469         21.340 km         27.180 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%										0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%	6	196	0.875 km	0.950 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44       469       15.170 km       1775 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         54       469       40.680 km       43.390 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         55	7	196	0.950 km	1.329 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44       469       15.170 km       1.775 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       1.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%					3					0.0%	0.0%
44         469         15.170 km         17.175 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           45         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           46         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           47         469         20.465 km         1.340 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           48         469         20.465 km         1.340 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           49         469         21.340 km         27.180 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%										0.0%	0.0%
44         469         15.170 km         17.175 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           45         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           46         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           47         469         20.465 km         1.340 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           48         469         20.465 km         1.340 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           49         469         21.340 km         27.180 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%										0.0%	0.0%
44       469       15.170 km       17.17 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       1.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       1775 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       13.40 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%	11	196	1.580 km	3.226 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44         469         15.170 km         17.175 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           45         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           46         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           47         469         20.465 km         1.30 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           48         469         20.465 km         1.30 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           49         469         21.340 km         27.180 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%	12	196	1.580 km	3.226 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44       469       15.170 km       1770 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       13.40 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       13.40 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         53       469       40.680 km       43.390 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%					1					0.0%	0.0%
44       469       15.170 km       1775 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       13.40 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       43.390 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%<										0.0%	0.0%
44       469       15.170 km       1770 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       13.40 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       13.40 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         53       469       40.680 km       43.390 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         53       469       40.680 km       43.390 km       0.0%       0.0%       0.0%       0.0%       0.0%         55       469										0.0%	0.0%
44       469       15.170 km       17.175 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         53       469       40.680 km       43.300 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         54       469       40.680 km       49.590										0.0%	0.0%
44       469       15.170 km       17.175 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         53       469       40.680 km       43.300 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         54       469       40.680 km       49.590										0.0%	0.0%
44         469         15.170 km         17.175 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           45         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           46         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           47         469         20.465 km         1.30 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           48         469         21.340 km         21.340 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           50         469         21.340 km         27.180 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           51         469         27.180 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%	18	196	12.670 km	13.860 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44       469       15.170 km       17.175 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       1.30 km       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       17.175 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       1.30 km       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       17.175 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       1.30 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       1.340 km       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0% <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.0%</td><td>0.0%</td></t<>										0.0%	0.0%
44         469         15.170 km         17.175 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           45         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           46         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           47         469         20.465 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           48         469         20.465 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           49         469         21.340 km         27.180 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           50         469         27.180 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           51         469         40.680 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           54         469         40.680 km         43.300 km         0.0%         0.0%										0.0%	0.0%
44       469       15.170 km       17.175 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       1.30 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       1.30 km       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0										0.0%	0.0%
44         469         15.170 km         17.175 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           45         469         17.175 km         20.465 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           46         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           47         469         20.465 km         1.30 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           48         469         20.465 km         21.340 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           50         469         21.340 km         27.180 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%	23	196	24.890 km	28.770 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44       469       15.170 km       17.175 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       1.30 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         54       4080 km       48.390 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%<	24	196				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44       469       15.170 km       170 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         54       469       40.680 km       43.390 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       170 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       21.465 km       1.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         54       469       40.680 km       43.300 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.0 %	0.0%
44       469       15.170 km       170 km       170 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       13.40 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       13.40 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         53       469       40.680 km       43.300 km       0.0%       0.0%       0.0%       0.0%       0.0%       0.0% <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.0%</td><td>0.0%</td></tr<>										0.0%	0.0%
44       469       15.170 km       1770 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       13.40 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       13.40 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         54       469       40.680 km       43.390 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       13.40 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       3.00%       0.0%       0.0%       0.0%       0.0%         54       469	28	196	30.357 km	33.944 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44       469       15.170 km       1770 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       13.40 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       13.40 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         54       469       40.680 km       43.390 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%	29	196	33.944 km	35.560 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       1.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       3.00%       0.0%       0.0%       0.0%       0.0%         54       469										0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.880 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.880 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       3.90 km       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       13.40 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       43.390 km       3       0.0%       0.0%       0.0%       0.0%       0.0% <t< td=""><td></td><td></td><td></td><td></td><td>· ·</td><td></td><td></td><td></td><td></td><td>0.0%</td><td>0.0%</td></t<>					· ·					0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.880 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       1.775 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       1.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.880 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%	35	469	1.119 km	6.724 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       1.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.880 km       1       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%	36	469			3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       13.40 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       43.390 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0% </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0%</td> <td>0.0%</td>										0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       13.40 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       43.390 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0% </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0%</td> <td>0.0%</td>										0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       1.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.880 km       1       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       177 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       170 km       175 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       13.40 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       13.40 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         54       469       40.680 km       43.300 km       1       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       170 km       175 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       1.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         53       469       40.680 km       43.300 km       3       0.0%       0.0%       0.0%       0.0%       0.0%	41	469	10.984 km	15.170 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44       469       15.170 km       170 km       175 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       13.40 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       13.40 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       27.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         54       469       40.680 km       43.300 km       1       0.0%       0.0%       0.0%       0.0%       0.0%										0.0%	0.0%
44       469       15.170 km       170 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         45       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         46       469       17.175 km       20.465 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       21.465 km       1.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       27.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         54       469       40.680 km       43.390 km       0.0%       0.0%       0.0%       0.0%       0.0%         57       469										0.0%	0.0%
45         469         17.175 km         20.465 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           46         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           47         489         20.465 km         21.340 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           48         469         20.465 km         21.340 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           50         469         21.340 km         27.180 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%										0.0%	0.0%
46         469         17.175 km         20.465 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           47         469         20.465 km         21.340 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           48         469         20.465 km         21.340 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           49         469         21.340 km         27.180 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           50         469         21.340 km         27.180 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           51         469         27.180 km         40.680 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           52         469         27.180 km         40.680 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           54         469         40.680 km         43.300 km         3         0.0%         0.0%         0.0%         0.0%											
47       469       20.465 km       21.340 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         48       469       20.465 km       21.340 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         49       469       21.340 km       71.180 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         50       469       21.340 km       71.180 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         51       469       27.180 km       40.680 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         53       469       40.680 km       43.390 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         54       469       40.880 km       49.590 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         55       469       48.390 km       49.590 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         56	-										
48         469         20.465 km         21.340 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           49         469         21.340 km         27.180 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           50         469         21.340 km         27.180 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           51         469         27.180 km         40.680 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           52         469         27.180 km         40.680 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           53         469         40.680 km         43.90 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%		469	17.175 km	20.465 km	3	0.0%	0.0%	0.0%		0.0%	0.0%
48         469         20.465 km         21.340 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           49         469         21.340 km         27.180 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           50         469         21.340 km         27.180 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           51         469         27.180 km         40.680 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           52         469         27.180 km         40.680 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           53         469         40.680 km         43.90 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%	47	469	20.465 km	21.340 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
49         469         21.340 km         27.180 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%											
50         469         21.340 km         27.180 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           51         469         27.180 km         40.680 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           52         469         27.180 km         40.680 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           53         469         40.680 km         48.390 km         1         0.0%         0.0%         0.0%         0.0%           54         469         40.680 km         48.390 km         3         0.0%         0.0%         0.0%         0.0%           55         469         48.390 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           56         469         48.390 km         49.590 km         3         0.0%         0.0%         0.0%         0.0%           57         469         49.590 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           58         469         49.590 km         59.160 km         7.170 km         3         0.0%         0.0%         0.0%											
51       469       27.180 km       40.680 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         52       469       27.180 km       40.680 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         53       469       40.680 km       43.390 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         54       469       40.680 km       43.390 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         55       469       48.390 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         56       469       48.390 km       49.590 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         57       469       49.590 km       59.160 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         58       469       49.590 km       59.160 km       3       0.0%       0.0%       0.0%       0.0%       0.0%         59       469       59.160 km       77.170 km       1       0.0%       0.0%       0.0%       0.0%       0.0%         60       469											
52         469         27.180 km         40.680 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           53         469         40.680 km         43.390 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           54         469         40.680 km         48.390 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           55         469         48.390 km         49.590 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           56         469         48.390 km         49.590 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           57         469         49.590 km         160 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           58         469         49.590 km         59.160 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%											
53         469         40.680 km         48.390 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           54         469         40.680 km         48.390 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           55         469         48.390 km         49.590 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           56         469         48.390 km         49.590 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           57         469         49.590 km         51.60 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           58         469         49.590 km         59.160 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           59         469         59.160 km         77.170 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%		469	27.180 km	40.680 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
53         469         40.680 km         48.390 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           54         469         40.680 km         48.390 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           55         469         48.390 km         49.590 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           56         469         48.390 km         49.590 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           57         469         49.590 km         51.60 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           58         469         49.590 km         59.160 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           59         469         59.160 km         77.170 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%	52	469	27.180 km	40.680 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
54         469         40.680 km         48.390 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           55         469         48.390 km         49.590 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           56         469         48.390 km         49.590 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           57         469         49.590 km         59.160 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           58         469         49.590 km         59.160 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           59         469         59.160 km         71.70 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           60         469         59.160 km         77.170 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%											
55         469         48.390 km         49.590 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           56         469         48.390 km         49.590 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           57         469         49.590 km         51.60 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           58         469         49.590 km         59.160 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%											
56         469         48.390 km         49.590 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           57         469         49.590 km         59.160 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%											
57         469         49.590 km         59.160 km         1         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           58         469         49.590 km         59.160 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%											
58         469         49.590 km         59.160 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           59         469         59.160 km         77.170 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           60         469         59.160 km         77.170 km         3         0.0%         0.0%         0.0%         0.0%         0.0%         0.0%           61         469         77.170 km         89.030 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           62         469         77.170 km         89.030 km         3         0.0%         0.0%         0.0%         0.0%           63         469         89.030 km         3         0.0%         0.0%         0.0%         0.0%											
59         469         59.160 km         77.170 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           60         469         59.160 km         77.170 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           61         469         77.170 km         89.030 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           62         469         77.170 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           63         469         89.030 km         1         0.0%         0.0%         0.0%         0.0%         0.0%		469	49.590 km	59.160 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
59         469         59.160 km         77.170 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           60         469         59.160 km         77.170 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           61         469         77.170 km         89.030 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           62         469         77.170 km         89.030 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           63         469         89.030 km         1         0.0%         0.0%         0.0%         0.0%         0.0%	58	469	49.590 km	59.160 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
60         469         59.160 km         77.170 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           61         469         77.170 km         89.030 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           62         469         77.170 km         89.030 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           63         469         89.030 km         89.670 km         1         0.0%         0.0%         0.0%         0.0%											
61         469         77.170 km         89.030 km         1         0.0%         0.0%         0.0%         0.0%         0.0%           62         469         77.170 km         89.030 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           63         469         89.030 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           63         469         89.030 km         1         0.0%         0.0%         0.0%         0.0%         0.0%											
62         469         77.170 km         89.030 km         3         0.0%         0.0%         0.0%         0.0%         0.0%           63         469         89.030 km         89.570 km         1         0.0%         0.0%         0.0%         0.0%         0.0%											
63 469 89.030 km 89.570 km 1 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%											
	63	469	89.030 km	89.570 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	64	469				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm WD%eachyear 8/01/2014

#### Annual Project ESA Loadings as

a Percentage of the Base Year

		the base																				
Cardno	TMR		Chainage	Direction	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
ID#	ROAD	Start	End	Direction																		
1	196	0.000 km	0.530 km	1	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2	196	0.000 km	0.530 km	3	0.0%	0.0%	0.0%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.1%	0.1%	0.0%	0.1%	0.0%
3	196	0.530 km	0.875 km	1	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
4	196	0.530 km	0.875 km	3	0.0%	0.0%	0.1%	0.3%	0.1%	0.1%	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%
5	196	0.875 km	0.950 km	1	0.0%	0.0%	0.2%	0.3%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%
6	196	0.875 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7	196	0.950 km		1	0.0%	0.0%	0.2%	0.3%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%
8	196	0.950 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
9	196		1.580 km	1	0.0%	0.0%	0.2%	0.3%	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
10	190	1.329 km	1.580 km	3	0.0%	0.0%	0.2%	0.3%	0.2 %	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%		0.1%	0.0%	0.0%	0.0%
				3														0.0%				
11	196		3.226 km	1	0.0%	0.1%	0.5%	0.9%	0.5%	0.3%	0.4%	0.4%	0.4%	0.3%	0.2%	0.2%	0.3%	0.3%	0.2%	0.1%	0.1%	0.0%
12	196		3.226 km	3	0.0%	0.0%	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%
13	196		4.030 km	1	0.0%	0.1%	0.5%	0.9%	0.5%	0.3%	0.4%	0.4%	0.4%	0.3%	0.2%	0.2%	0.3%	0.3%	0.2%	0.1%	0.1%	0.0%
14	196		4.030 km	3	0.0%	0.0%	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
15	196	4.031 km	12.670 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
16	196	4.031 km	12.670 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
17	196	12.670 km	13.860 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
18	196	12.670 km	13.860 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
19	196		20.710 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
20	196		20.710 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%
21	196		24.890 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%
22	196		24.890 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
23	196		28.770 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
24	196		28.770 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
25	196		30.357 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
26	196		30.357 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
27	196	30.357 km	33.944 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
28	196	30.357 km	33.944 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
29	196	33.944 km	35.560 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
30	196		35.560 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
31	469		0.065 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	1.7%	1.4%	2.3%	1.8%	0.7%	1.2%	1.1%
32	469	0.000 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	1.9%	15.8%	12.6%	20.6%	16.3%	6.3%	10.9%	9.5%
33	469		1.119 km		0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%		0.0%					0.0%
				1						0.0%						0.0%		0.0%	0.0%	0.0%	0.0%	
34	469		1.119 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
35	469	1.119 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
36	469		6.724 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
37	469	6.724 km	9.089 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
38	469	6.724 km	9.089 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
39	469	9.089 km	10.984 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
40	469	9.089 km	10.984 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
41	469	10.984 km	15.170 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
42	469		15.170 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
43	469		17.175 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44	469		17.175 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44	469		20.465 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
			20.465 km			0.0%			0.0%								0.0%		0.0%		0.0%	
46	469			3	0.0%		0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%		0.0%
47	469		21.340 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
48	469		21.340 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
49	469	21.340 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
50	469		27.180 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
51	469	27.180 km	40.680 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
52	469	27.180 km	40.680 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
53	469		48.390 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
54	469		48.390 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
55	469		49.590 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
56	469		49.590 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
57	469		59.160 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
58	469		59.160 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
59	469		77.170 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
60	469		77.170 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
61	469	77.170 km	89.030 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
62	469		89.030 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
63	469		89.570 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
64	469		89.570 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
		, 50.000 km	22.010 1111		0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
			-																			

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm WD%baseyear 8/01/2014

#### Annual Project ESA Loadings as

a Percentage of the Base Year

		the Dase							1							1						
Cardno	TMR	Chainage		Direction	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
ID#	ROAD	Start	End																			
1	196	0.000 km	0.530 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2	196	0.000 km	0.530 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
3	196	0.530 km	0.875 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
4	196	0.530 km	0.875 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
5	196	0.875 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
6	196			3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			0.0%		0.0%		0.0%	0.0%		
7		0.875 km	0.950 km	3									0.0%	0.0%		0.0%		0.0%			0.0%	0.0%
	196	0.950 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
8	196	0.950 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
9	196	1.329 km	1.580 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
10	196	1.329 km	1.580 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
11	196	1.580 km	3.226 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
12	196	1.580 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
13	196	3.226 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
14	196	3.226 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%
15	196	4.031 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
16	196	4.031 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
17	196	12.670 km	13.860 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%
18	196	12.670 km	13.860 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
19	196	13.860 km	20.710 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
20	196	13.860 km	20.710 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
21	196	20.710 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%
22	196	20.710 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%
				3																0.0%		
23	196	24.890 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%
24	196	24.890 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
25	196	28.770 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
26	196	28.770 km	30.357 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
27	196	30.357 km	33.944 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
28	196	30.357 km	33.944 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
29	196	33.944 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
30	196	33.944 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
31	469	0.000 km		1	0.8%	0.5%	0.1%	0.0%	0.2%	0.1%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
				1																		
32	469	0.000 km		3	7.7%	4.7%	0.5%	2.2%	2.1%	0.5%	1.4%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
33	469	0.065 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
34	469	0.065 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
35	469	1.119 km	6.724 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
36	469	1.119 km	6.724 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
37	469	6.724 km	9.089 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
38	469	6.724 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
39	469	9.089 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
40	469	9.089 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
41	469	10.984 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
42	469	10.984 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
43	469	15.170 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44	469	15.170 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
45	469	17.175 km	20.465 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
46	469	17.175 km	20.465 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
47	469	20.465 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
48	469	20.465 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
40	469	21.340 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
49 50	469	21.340 km		3	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
				3				0.0%														
51	469	27.180 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
52	469	27.180 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
53	469	40.680 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
54	469	40.680 km	48.390 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
55	469	48.390 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
56	469	48.390 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
57	469	49.590 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
58	469	49.590 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
59	469	59.160 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
60	469		77.170 km		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
61	469	77.170 km		1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
62	469	77.170 km	89.030 km	3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
63	469	89.030 km	89.570 km	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
64	469	89.030 km		3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
				-			2.270	2.2.70	2.270	2.270				2.270	2.270	2.2.70	2.570	2.370	2.370			
			-																			

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm WD%baseyear 8/01/2014

#### Annual Project ESA Loadings as

#### a Percentage of the Base Year

Cardno	TMR	Chainage Chainage Direction	2051	2052	2053	2054	2055	2056	
ID#	ROAD 196	Start End 0.000 km 0.530 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
2	196	0.000 km 0.530 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
3	196	0.530 km 0.875 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
4	196	0.530 km 0.875 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
5	196	0.875 km 0.950 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
6	196	0.875 km 0.950 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
7	196	0.950 km 1.329 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
8	196 196	0.950 km 1.329 km 3 1.329 km 1.580 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
10	196	1.329 km 1.580 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
11	196	1.580 km 3.226 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
12	196	1.580 km 3.226 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
13	196	3.226 km 4.030 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	221
14	196	3.226 km 4.030 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
15 16	196 196	4.031 km 12.670 km 1 4.031 km 12.670 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
17	196	12.670 km 13.860 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
18	196	12.670 km 13.860 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
19	196	13.860 km 20.710 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	MPLE road sections)
20	196	13.860 km 20.710 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
21	196	20.710 km 24.890 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
22 23	196 196	20.710 km 24.890 km 3 24.890 km 28.770 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
23	196	24.890 km 28.770 km 1 24.890 km 28.770 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
25	196	28.770 km 30.357 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
26	196	28.770 km 30.357 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
27	196	30.357 km 33.944 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
28	196	30.357 km 33.944 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
29	196	33.944 km 35.560 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
30	196	33.944 km 35.560 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
31	469 469	0.000 km 0.065 km 1 0.000 km 0.065 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
33	469	0.065 km 1.119 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
34	469	0.065 km 1.119 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
35	469	1.119 km 6.724 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
36	469	1.119 km 6.724 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
37	469	6.724 km 9.089 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	63
38 39	469 469	6.724 km 9.089 km 3 9.089 km 10.984 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
40	469	9.089 km 10.984 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
40	469	10.984 km 15.170 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
42	469	10.984 km 15.170 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
43	469	15.170 km 17.175 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	F Contraction of the second seco
44	469	15.170 km 17.175 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
45 46	469 469	17.175 km 20.465 km 1 17.175 km 20.465 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
40	469	20.465 km 21.340 km 1	0.0%	0.0%	0.0%		0.0%	0.0%	
48	469	20.465 km 21.340 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
49	469	21.340 km 27.180 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
50	469	21.340 km 27.180 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
51	469	27.180 km 40.680 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
52	469	27.180 km 40.680 km 3 40.680 km 48.390 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
53 54	469 469	40.680 km 48.390 km 1 40.680 km 48.390 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
55	469	48.390 km 49.590 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
56	469	48.390 km 49.590 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
57	469	49.590 km 59.160 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
58	469	49.590 km 59.160 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
59	469	59.160 km 77.170 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
60	469	59.160 km 77.170 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
61 62	469 469	77.170 km 89.030 km 1 77.170 km 89.030 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
63	469	89.030 km 89.570 km 1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
64	469	89.030 km 89.570 km 3	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

G:\CEB06466 - Bowen Gas Project Supplementary EIS\6466 Analysis\2013 12 PIA\6466 PIA 2014 01 06 - BOWEN PIA.xlsm WD%baseyear 8/01/2014

[V@&rÁj,æ\*^Á@æe/Áa\^}Á^~~Á4j,c^}cāj,}aa|\^Áa|aa)\]

# Bowen Gas Project SREIS

# APPENDIX G Traffic Engineering Case Study Assessments



Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

## Locality Plan



Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

## **Aerial Photo**



Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

### **Intersection Photos**



Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

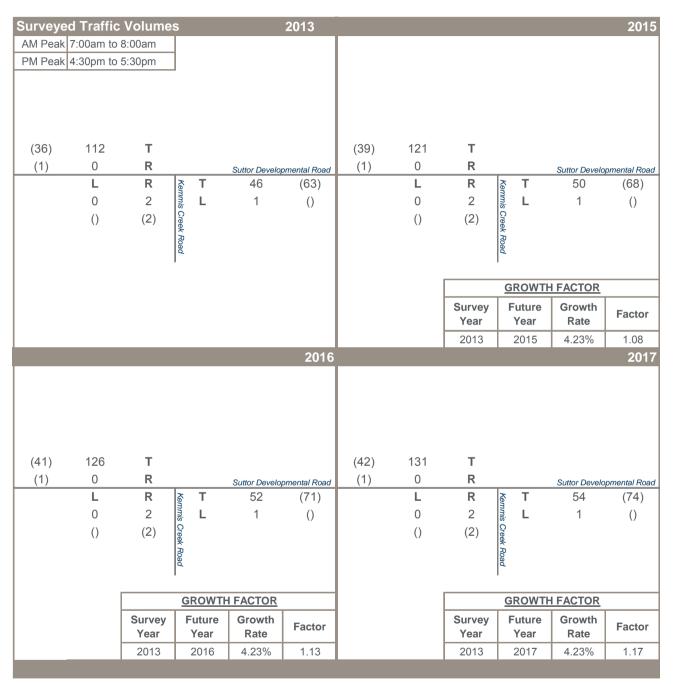
Eastern Approach: Suttor Develop	mental Road						
Jurisdiction	TMR						
Speed Limit	100km/hr	Default Rural Speed Limit					
Left Turn Treatment	none						
Right Turn Treatment	n/a						
Safe Intersection Sight Distance	300m +						
Pavement Condition	Sealed						

Southern Approach: Kemmis Cree	< Road						
Jurisdiction	IRC						
Speed Limit	100km/hr	Default Rural Speed Limit					
Left Turn Treatment	n/a						
Right Turn Treatment	n/a						
Pavement Condition	Unsealed, loose gravel						

Western Approach: Suttor Developmental Road			
Jurisdiction	TMR		
Speed Limit	100km/hr	Default Rural Speed Limit	
Left Turn Treatment	n/a		
Right Turn Treatment	none		
Safe Intersection Sight Distance	300m +		
Pavement Condition	Sealed		

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

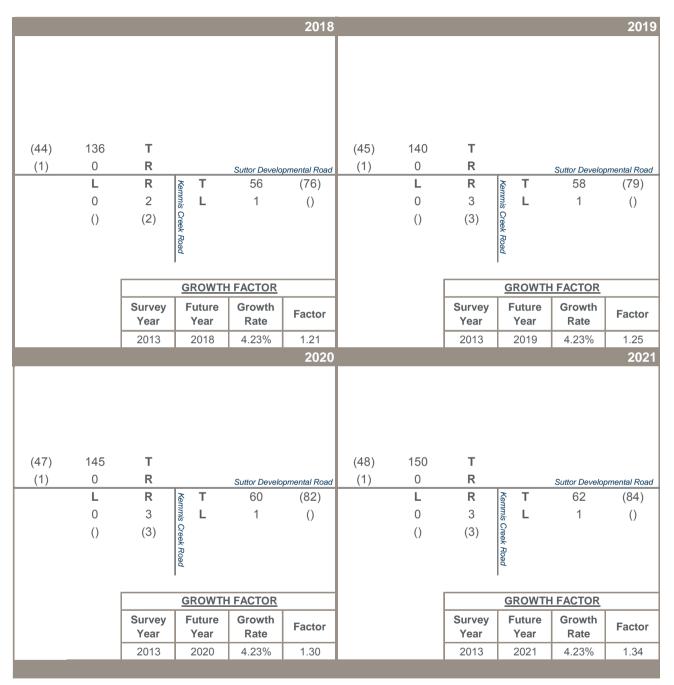
## **Baseline Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

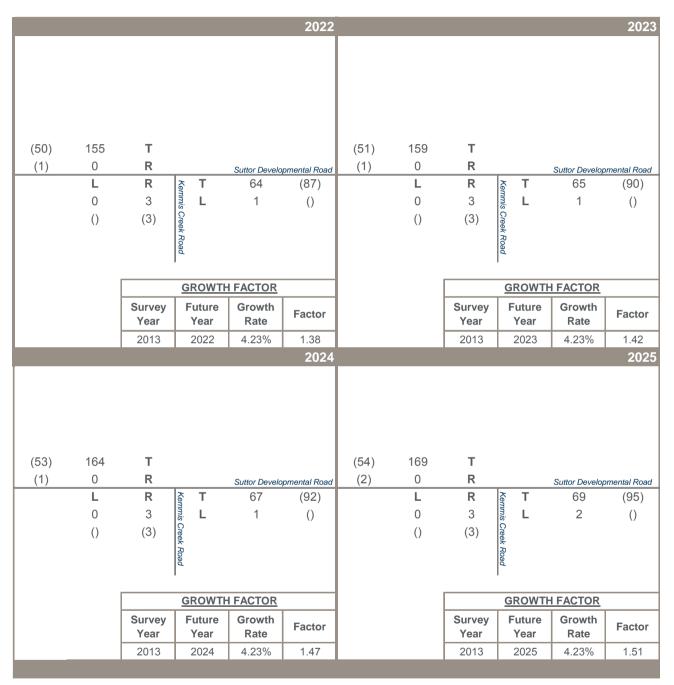
### **Baseline Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

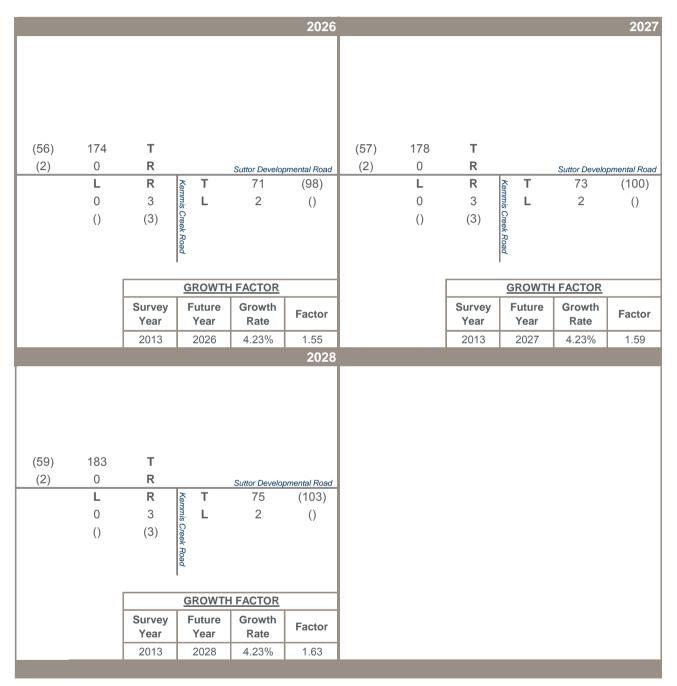
### **Baseline Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

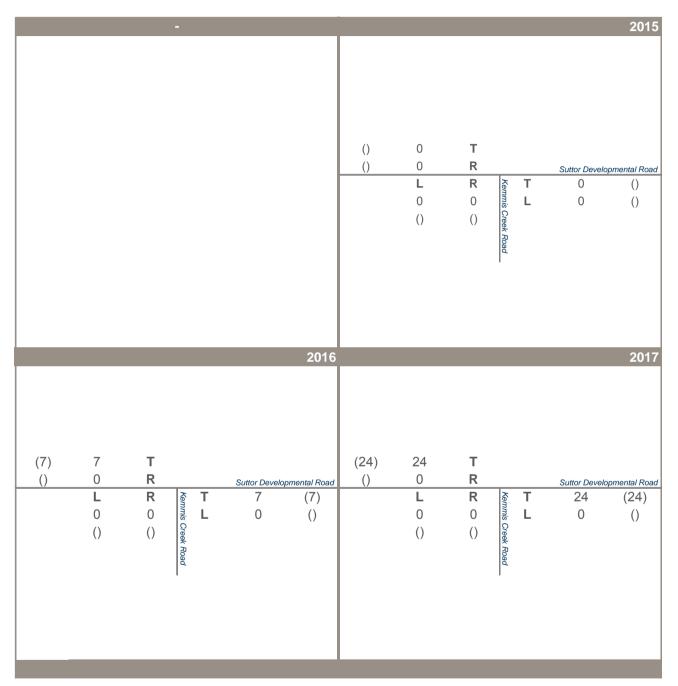
### **Baseline Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

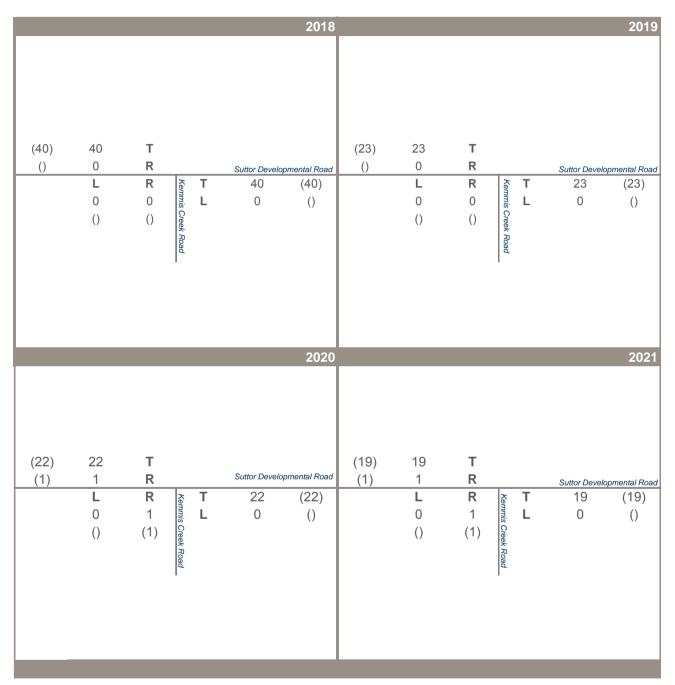
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

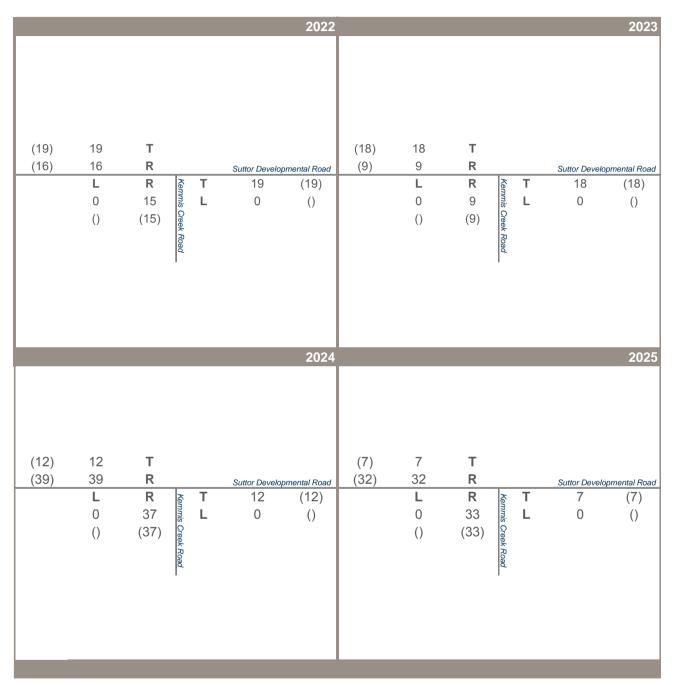
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

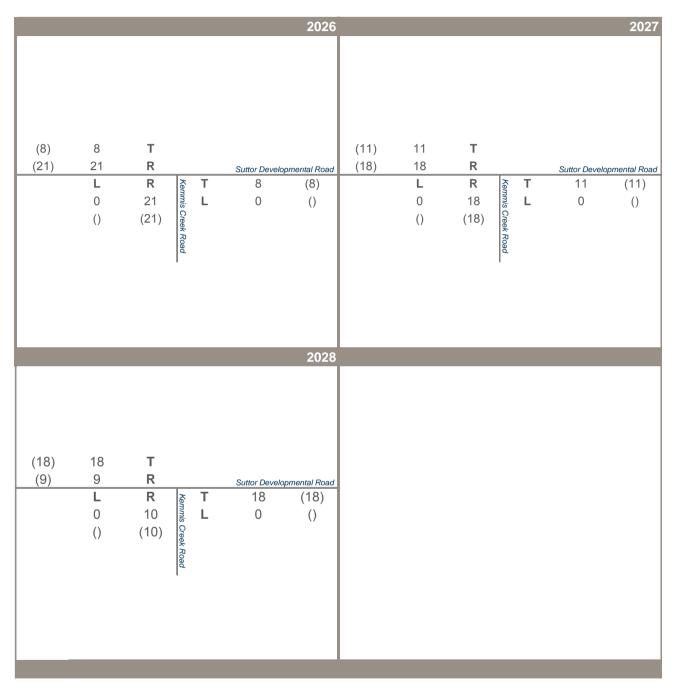
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

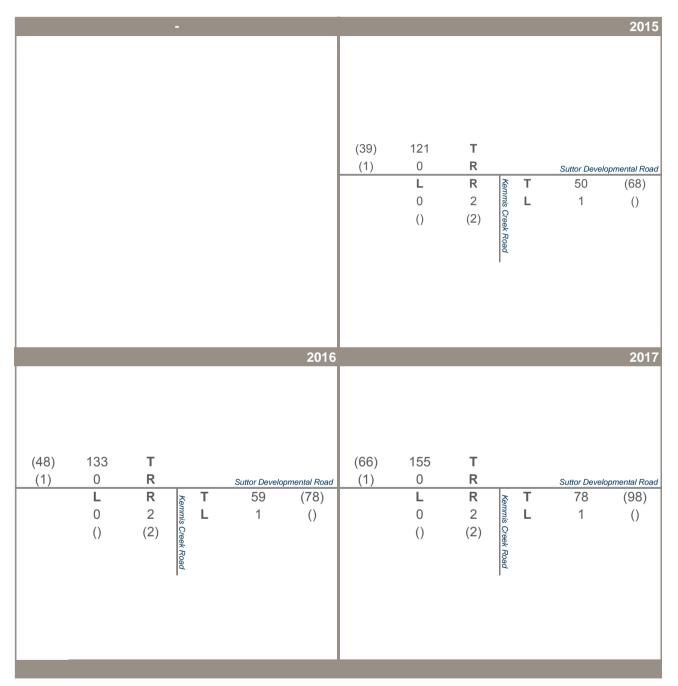
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

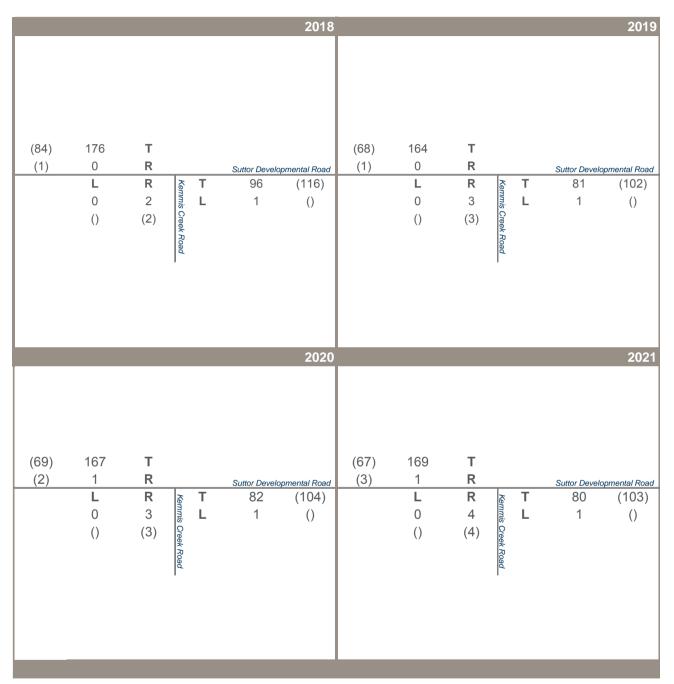
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

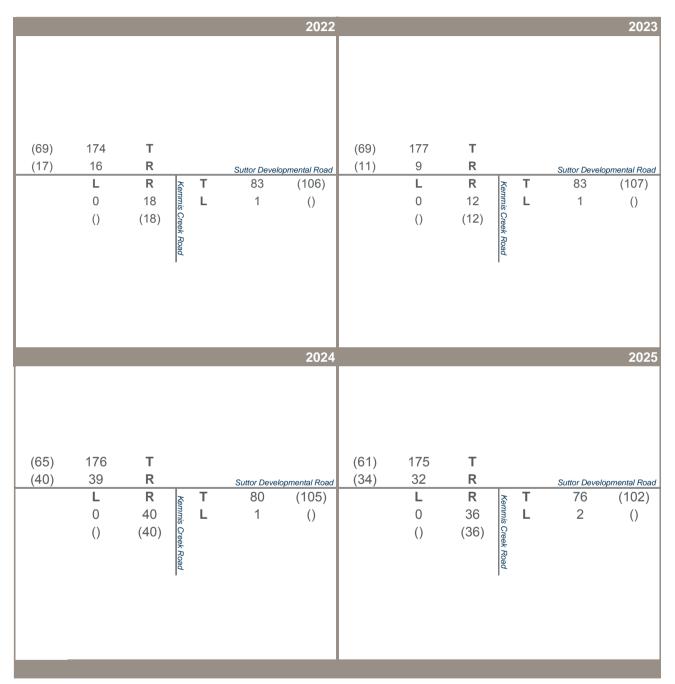
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

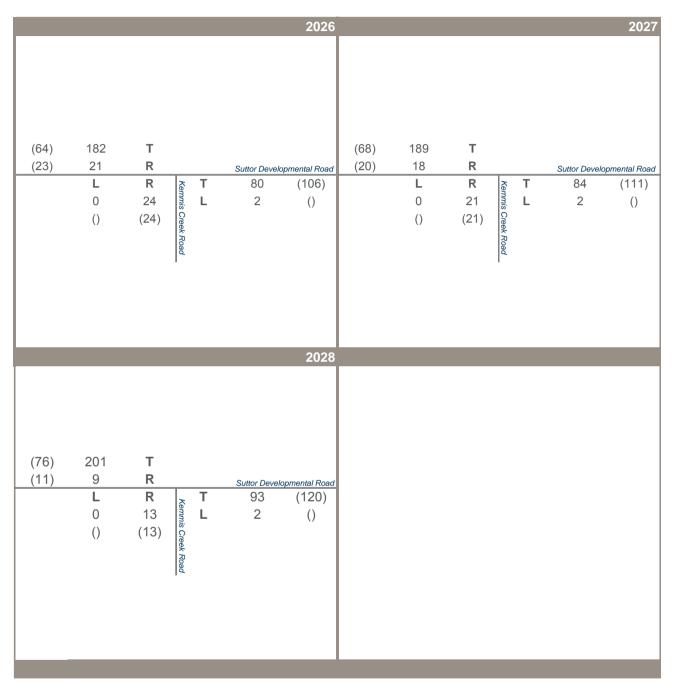
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

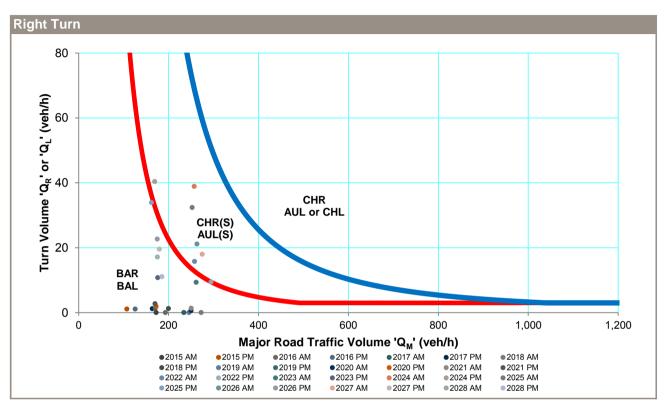
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**

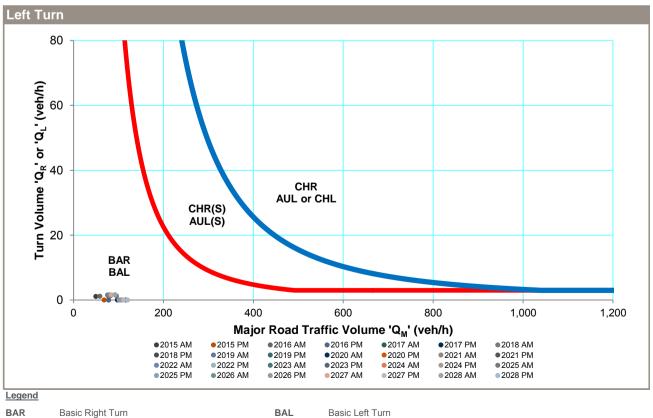


- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

### **Turn Warrant Assessment**





BAR

Basic Right Turn

CHR Channelised Right Turn

CHR(S) Channelised Right Turn (short) CHL Channelised Left Turn

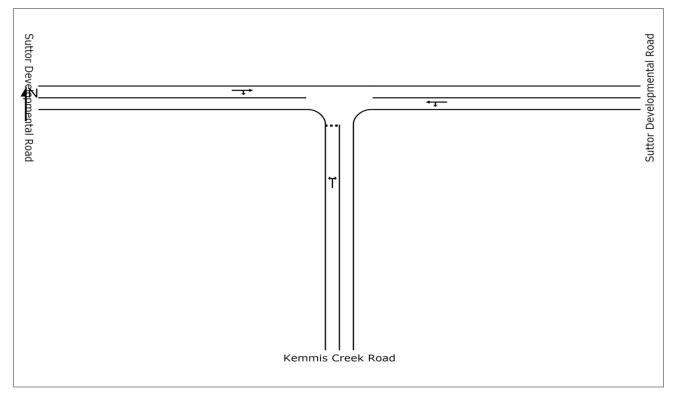
CHL(S) Channelised Left Turn (short)

Intersection Assessment

Intersection 1 - Suttor Developmental Road/Kemmis Creek Road - xvii

Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

## **Operational Analysis: Intersection Configuration**



### **Operational Analysis: Summary of Results**

		AM Peak			PM Peak		e pt
Scenario	DOS	Critical Delay	95 <sup>th</sup> %ile Queue	DOS	Critical Delay	95 <sup>th</sup> %ile Queue	Accept -able
2013 Survey	0.08	20 sec	3m	0.04	20 sec	1m	✓
2018 Baseline and Project	0.12	20 sec	5m	0.08	20 sec	2m	✓
2028 Baseline and Project	0.14	21 sec	6m	0.08	20 sec	2m	✓

Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

## Locality Plan



Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

## **Aerial Photo**



Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

### **Intersection Photos**



Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

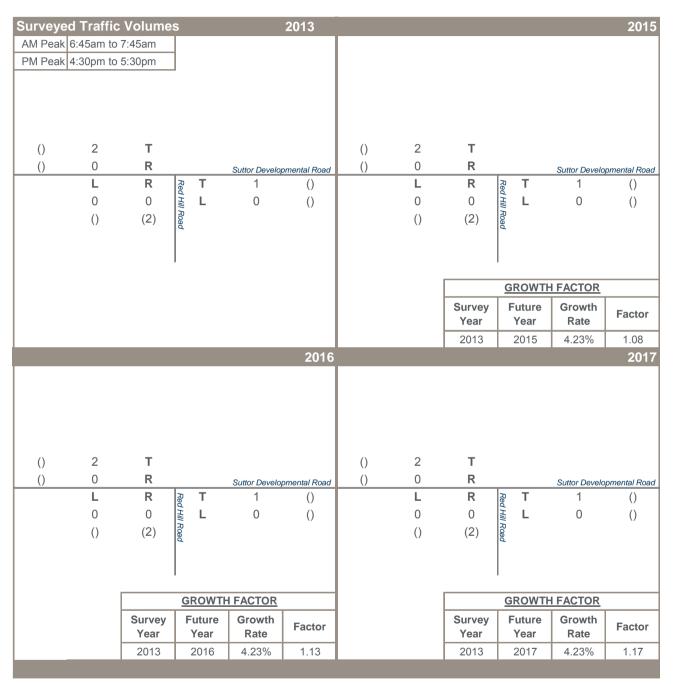
Eastern Approach: Suttor Developmental Road				
Jurisdiction	TMR			
Speed Limit	100km/hr	Default Rural Speed Limit		
Left Turn Treatment	none			
Right Turn Treatment	n/a			
Safe Intersection Sight Distance	300m +			
Pavement Condition	Unsealed, loose gravel			

Southern Approach: Red Hill Road			
Jurisdiction	IRC		
Speed Limit	100km/hr	Default Rural Speed Limit	
Left Turn Treatment	n/a		
Right Turn Treatment	n/a		
Safe Intersection Sight Distance	300m +		
Pavement Condition	Unsealed, loose gravel		

Western Approach: Suttor Developmental Road			
Jurisdiction	TMR		
Speed Limit	100km/hr	Default Rural Speed Limit	
Left Turn Treatment	n/a		
Right Turn Treatment	none		
Safe Intersection Sight Distance	300m +		
Pavement Condition	Unsealed, loose gravel		

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

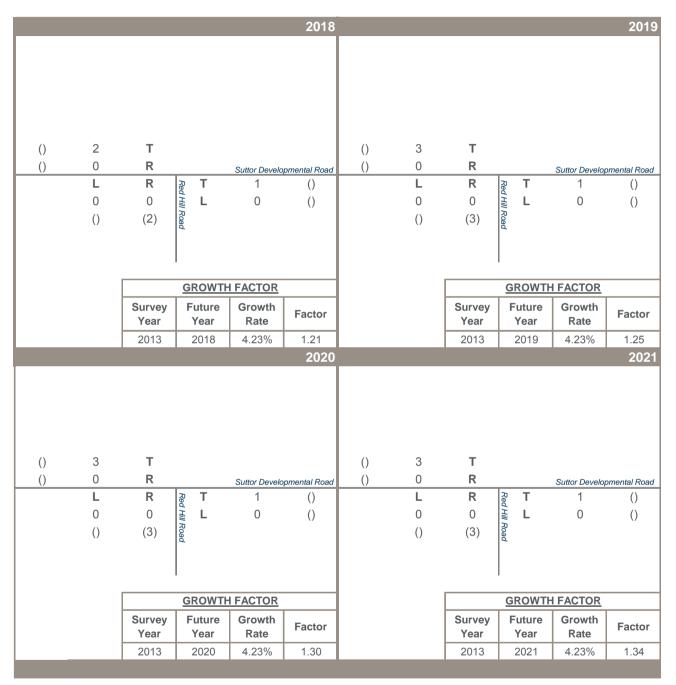
## **Baseline Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

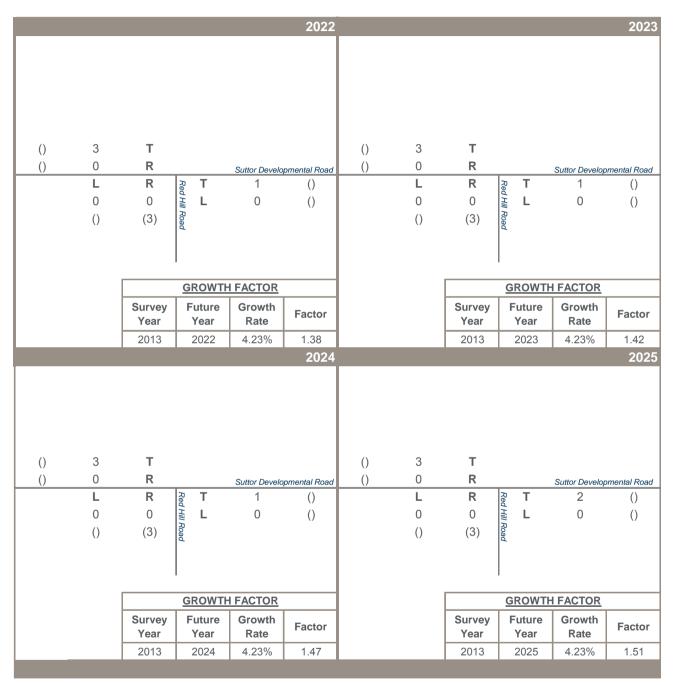
### **Baseline Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

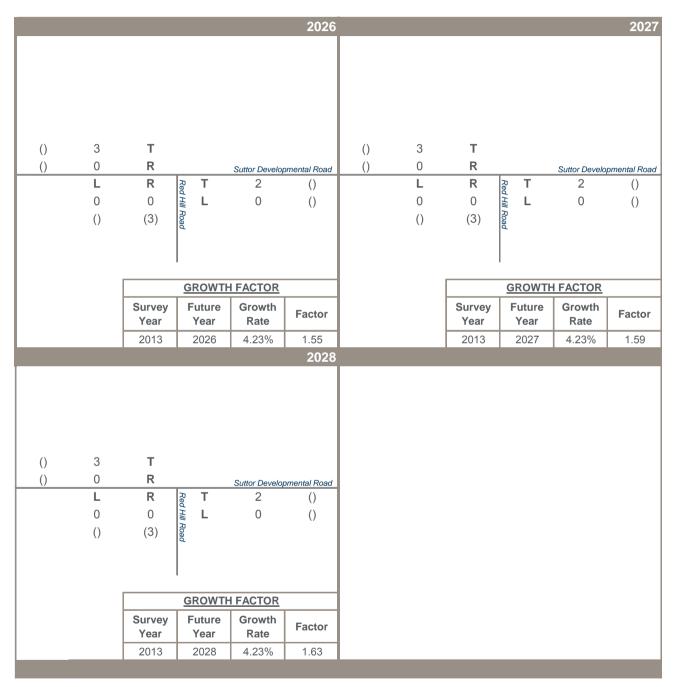
### **Baseline Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

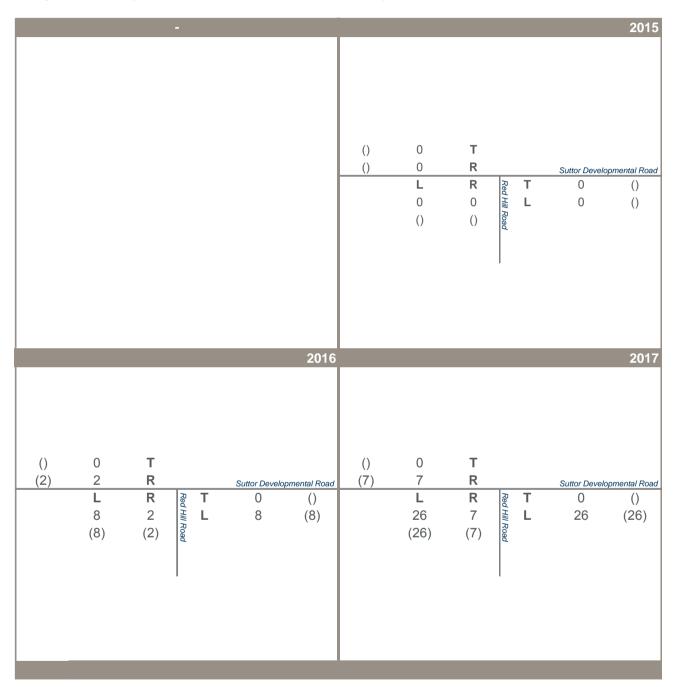
### **Baseline Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

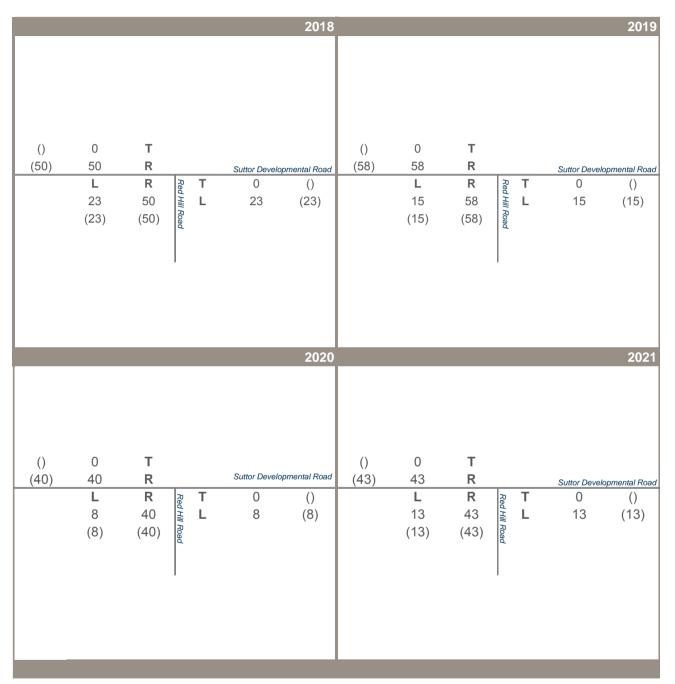
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

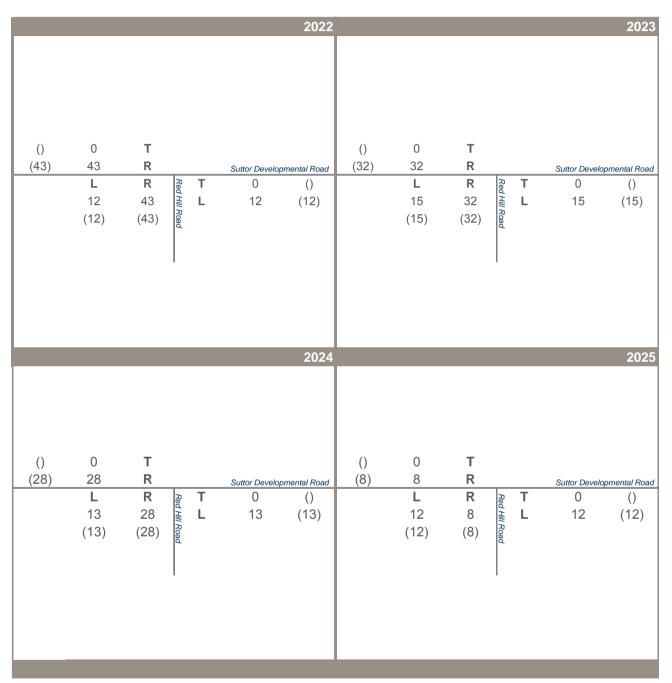
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

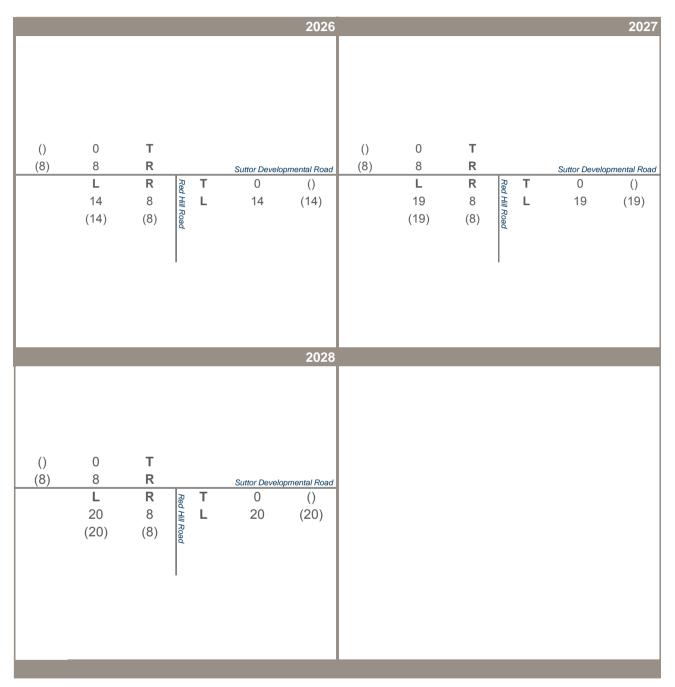
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

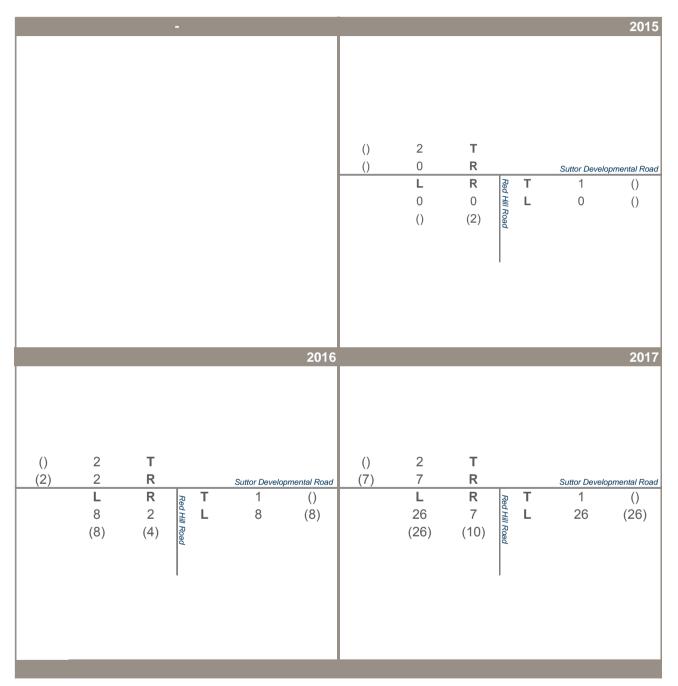
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

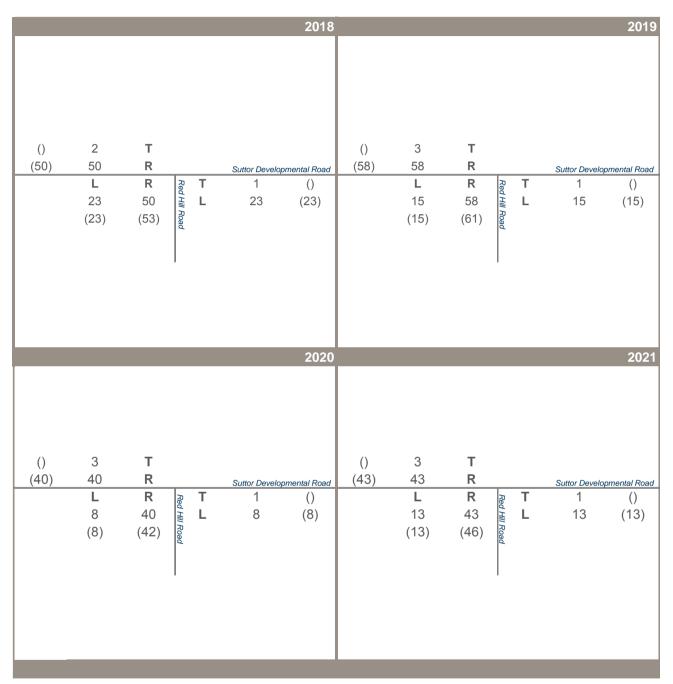
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

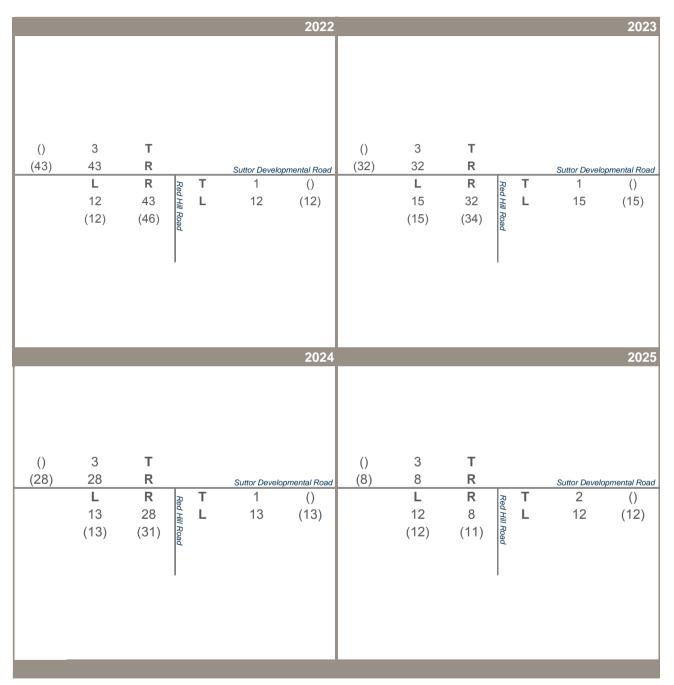
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

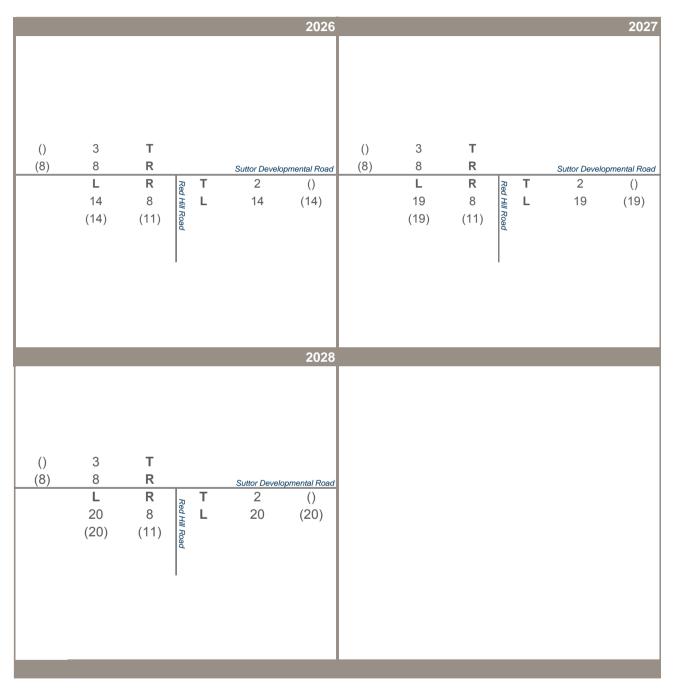
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

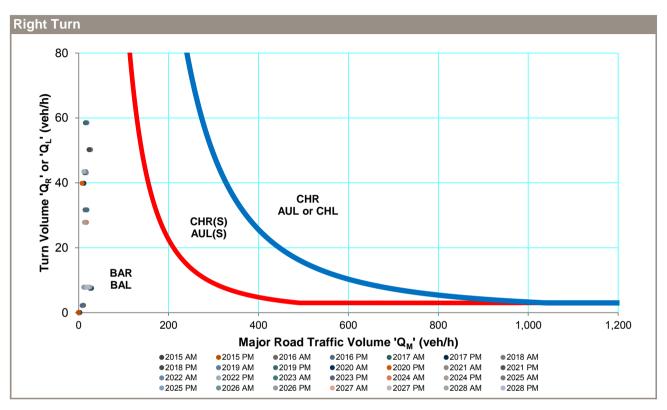
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**

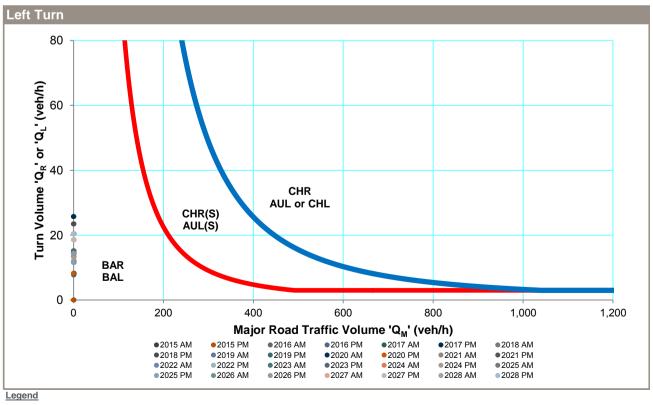


- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

### **Turn Warrant Assessment**





BAR Basic Right Turn

CHR Channelised Right Turn

CHR(S)

Channelised Right Turn (short)

BAL Basic Left Turn CHL Channelised Left Turn

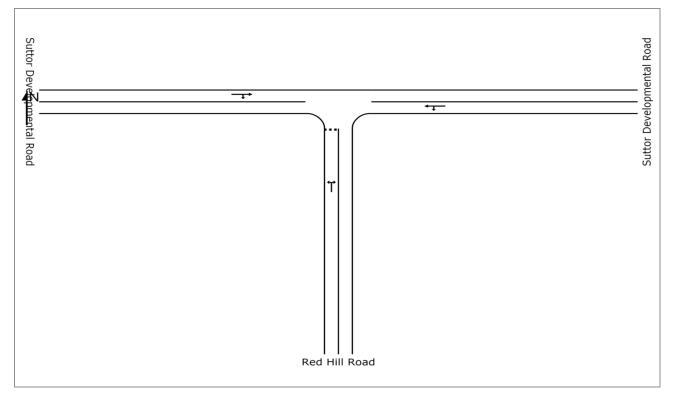
CHL(S) Channelised Left Turn (short)

Intersection Assessment

Intersection 2 - Suttor Developmental Road/Red Hill Road - xvii

Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

### **Operational Analysis: Intersection Configuration**



### **Operational Analysis: Summary of Results**

		AM Peak			PM Peak		e pt
Scenario	DOS	Critical Delay	95 <sup>th</sup> %ile Queue	DOS	Critical Delay	95 <sup>th</sup> %ile Queue	Accept -able
2013 Survey	0.002	20 sec	1m	0.003	20 sec	1m	$\checkmark$
2018 Baseline and Project	0.07	20 sec	2m	0.07	20 sec	2m	✓
2028 Baseline and Project	0.02	20 sec	1m	0.03	20 sec	1m	~

Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

### Locality Plan



Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

### **Aerial Photo**



Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

### **Intersection Photos**



Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

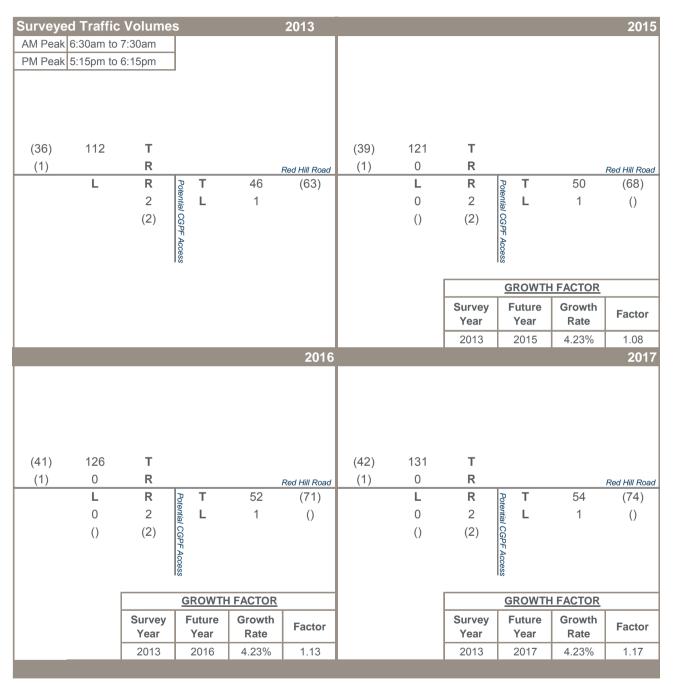
Northern Approach: Red Hill Road			
Jurisdiction	IRC		
Speed Limit	100km/hr Default Rural Speed Limit		
Left Turn Treatment	none		
Right Turn Treatment	n/a		
Safe Intersection Sight Distance	300m +		
Pavement Condition	Sealed		

Eastern Approach: Potential CGPF Access			
Jurisdiction	IRC		
Speed Limit	100km/hr Default Rural Speed Limit		
Left Turn Treatment	n/a		
Right Turn Treatment	n/a		
Pavement Condition	Loose Gravel		

Southern Approach: Red Hill Road			
Jurisdiction	IRC		
Speed Limit	100km/hr Default Rural Speed Limit		
Left Turn Treatment	n/a		
Right Turn Treatment	none		
Safe Intersection Sight Distance	300m +		
Pavement Condition	Sealed		

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

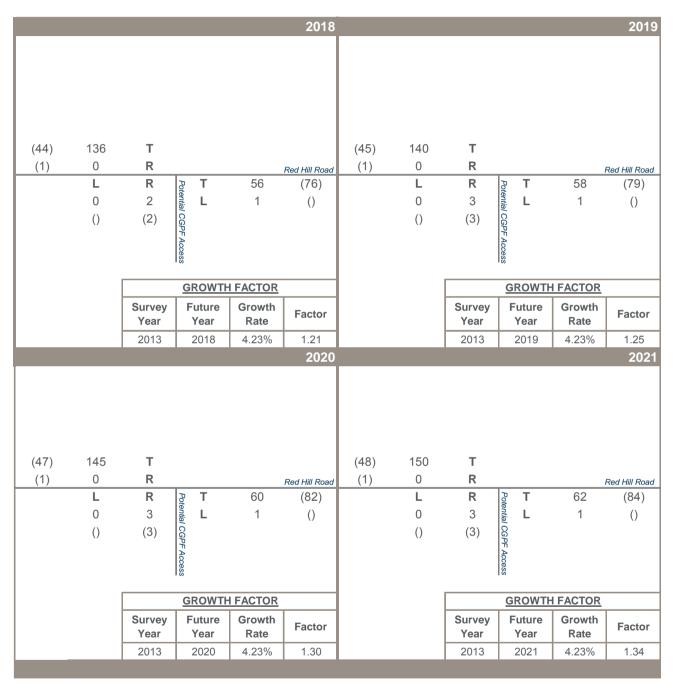
### **Baseline Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

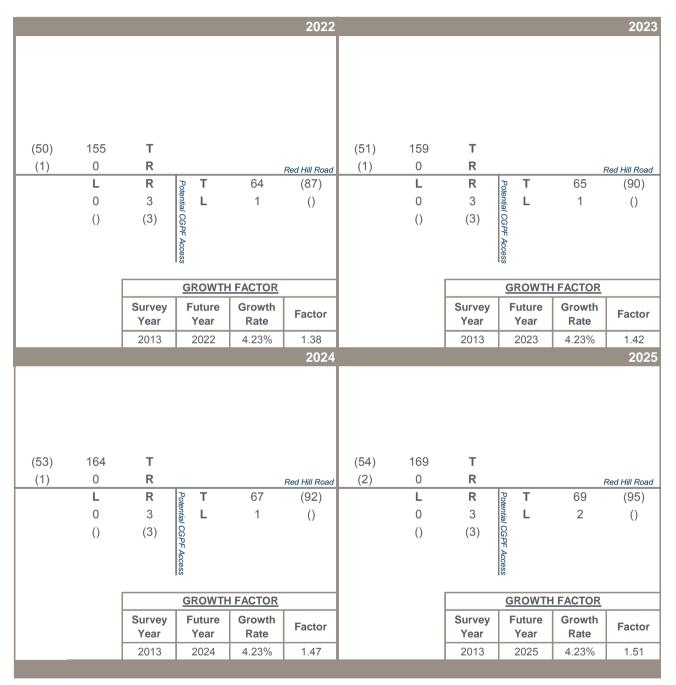
### **Baseline Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

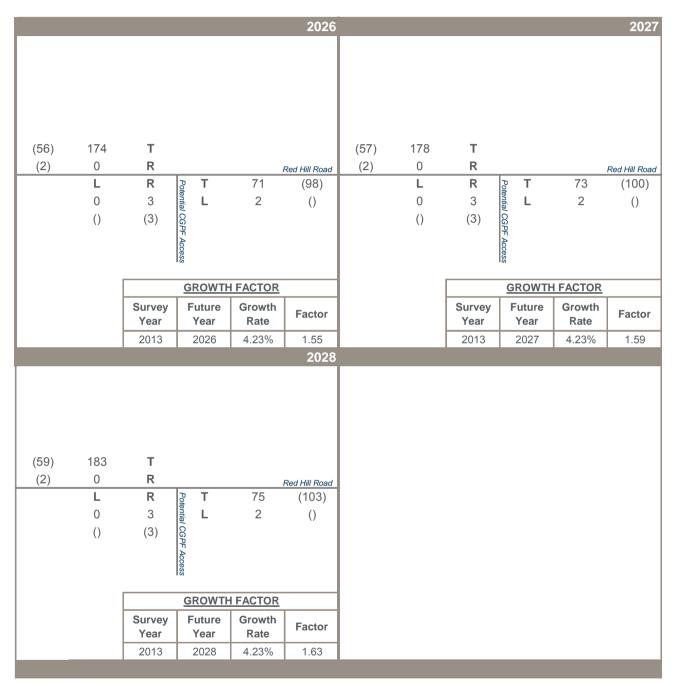
### **Baseline Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

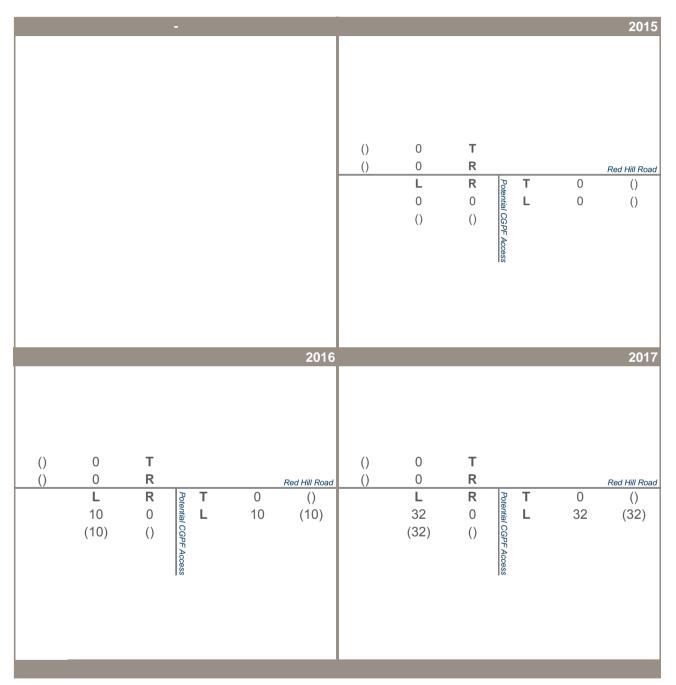
### **Baseline Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

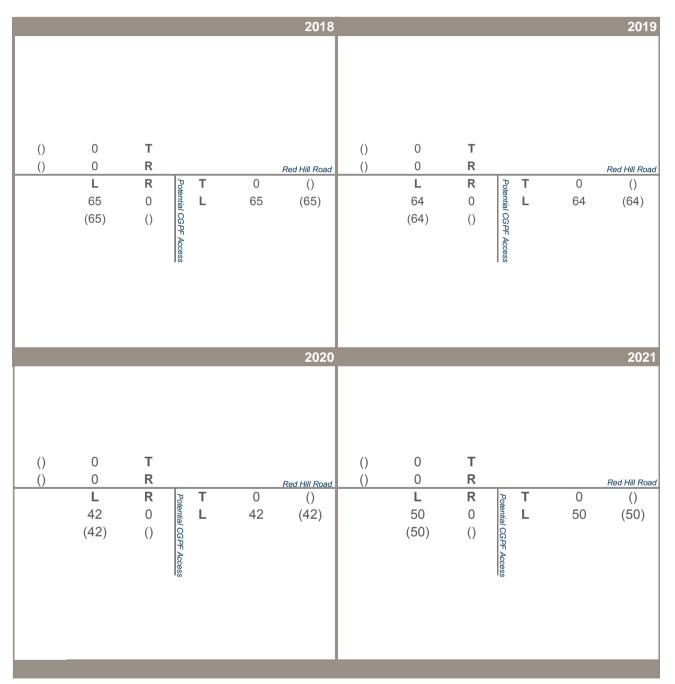
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

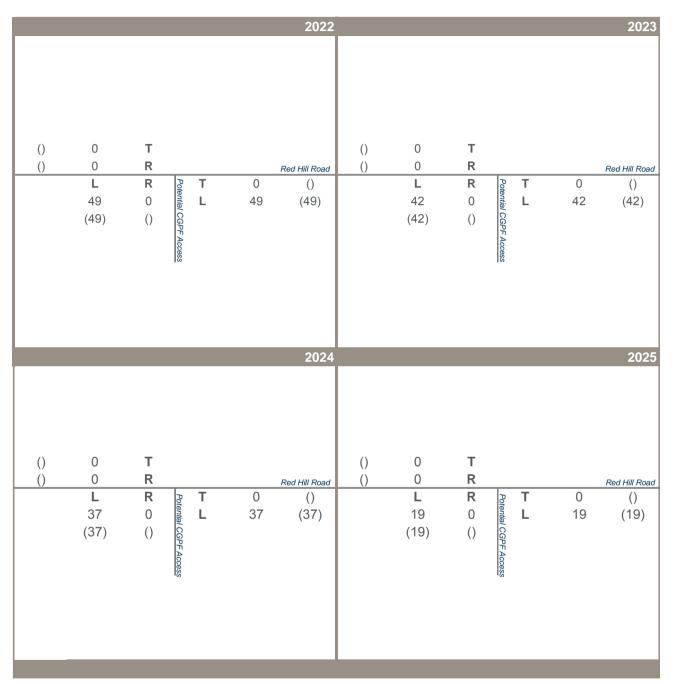
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

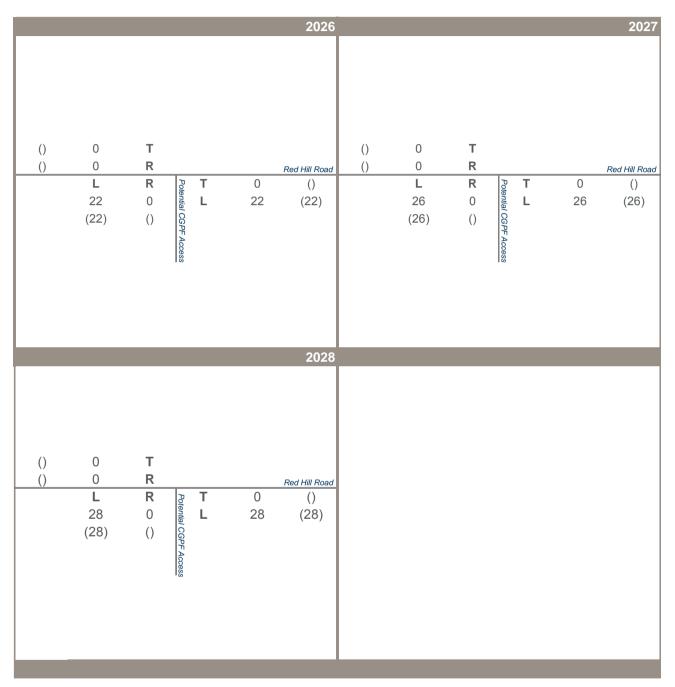
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

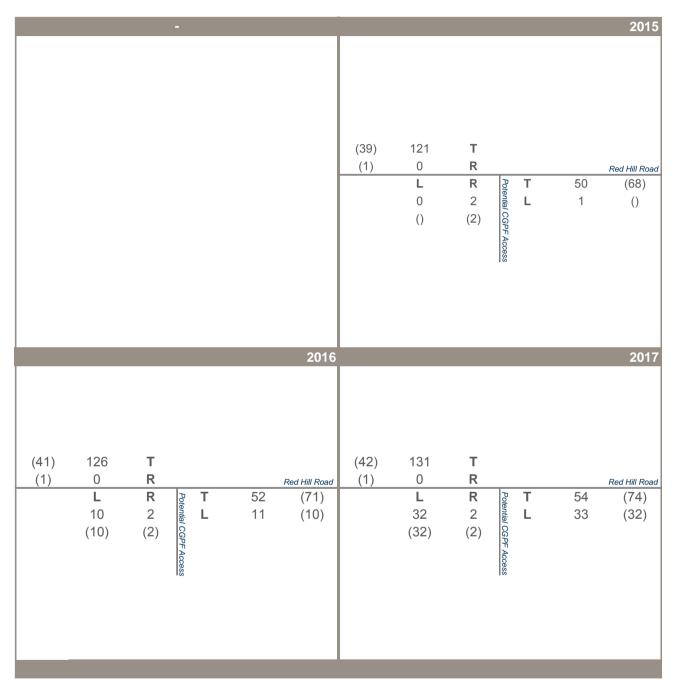
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

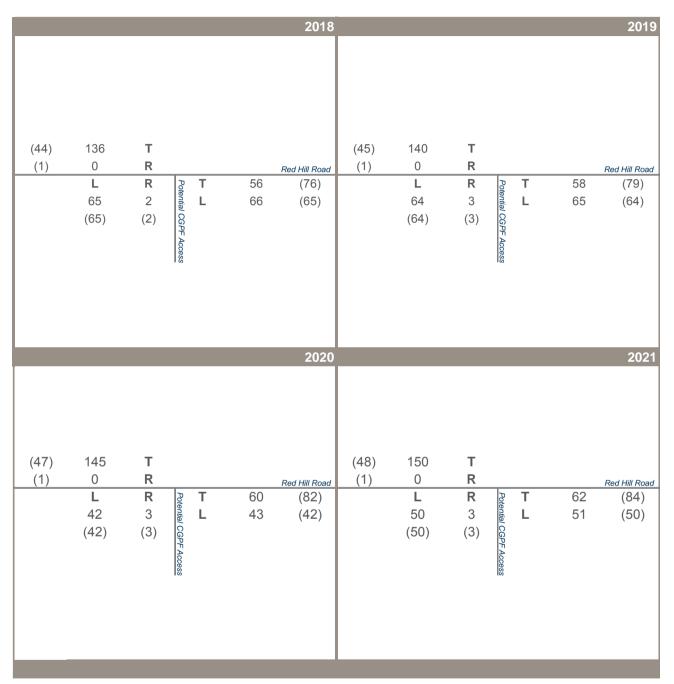
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

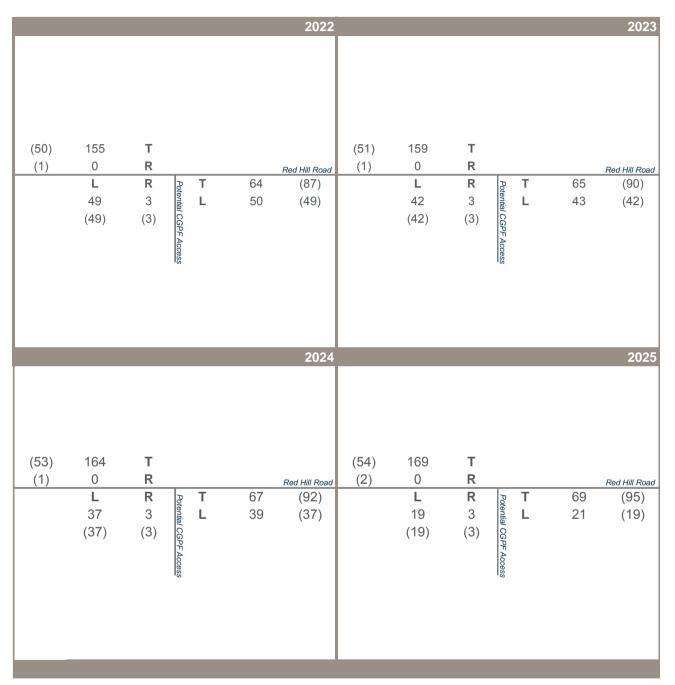
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

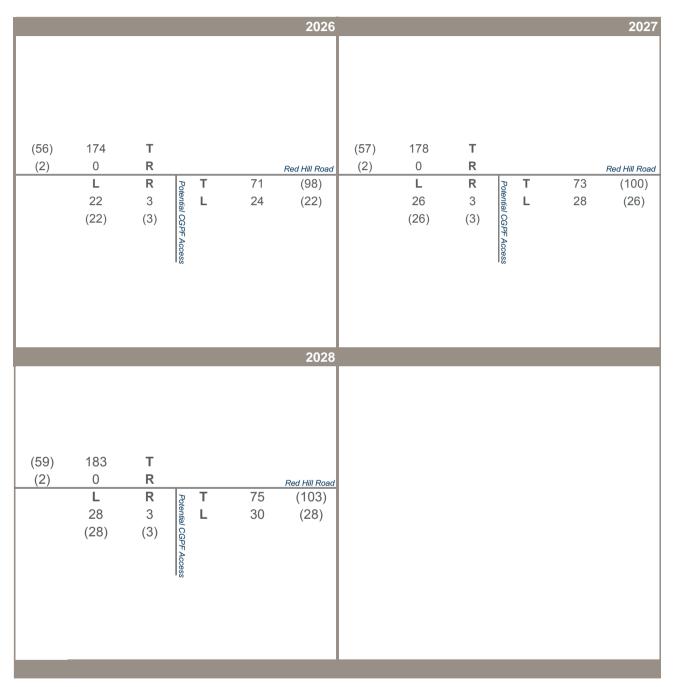
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

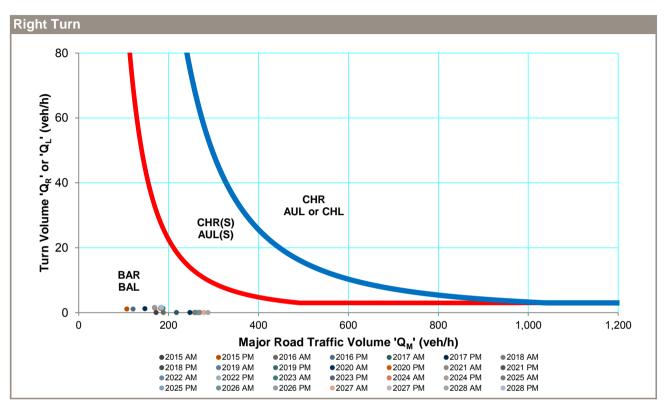
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**

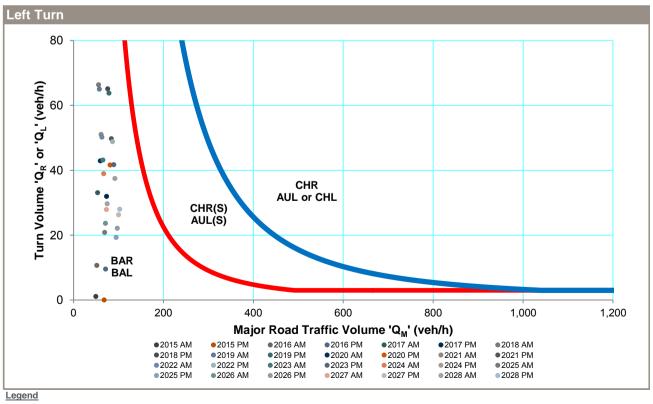


- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

### **Turn Warrant Assessment**





BAR Basic Right Turn

- CHR Channelised Right Turn
- CHR(S) Channelised Right Turn (short)

Intersection Assessment

Basic Left Turn Channelised Left Turn

BAL

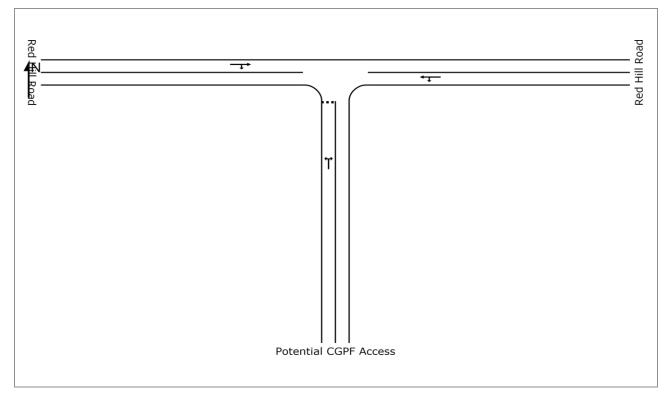
CHL

CHL(S) Channelised Left Turn (short)

Intersection 3 - Red Hill Road/Potential CGPF Access - xvii

Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	22 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

### **Operational Analysis: Intersection Configuration**



### **Operational Analysis: Summary of Results**

		AM Peak			PM Peak		e pt
Scenario	DOS	Critical Delay	95 <sup>th</sup> %ile Queue	DOS	Critical Delay	95 <sup>th</sup> %ile Queue	Accept -able
2013 Survey	0.08	20 sec	3m	0.04	20 sec	1m	✓
2018 Baseline and Project	0.09	20 sec	4m	0.10	20 sec	2m	✓
2028 Baseline and Project	0.13	20 sec	5m	0.09	20 sec	2m	✓

Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	23 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

### Locality Plan

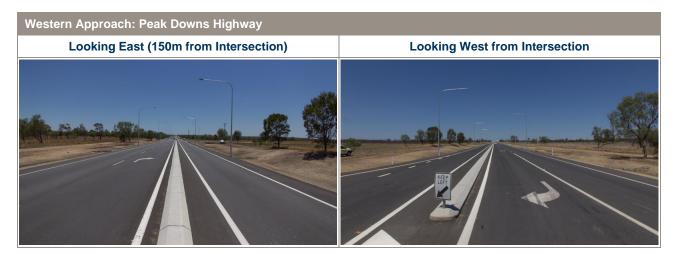


Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	23 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

### **Intersection Photos**







Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	23 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

Eastern Approach: Peak Downs Highway				
Jurisdiction	TMR			
Speed Limit	100km/hr	Default Rural Speed Limit		
Left Turn Treatment	Seagull			
Right Turn Treatment	none			
Safe Intersection Sight Distance	300m +			
Pavement Condition	Sealed			

Southern Approach: Moranbah-Dysart Road				
Jurisdiction	IRC			
Speed Limit	100km/hr	Default Rural Speed Limit		
Left Turn Treatment	Seagull			
Right Turn Treatment	Seagull			
Pavement Condition	Sealed			

Western Approach: Peak Downs Highway					
Jurisdiction	TMR				
Speed Limit	100km/hr	Default Rural Speed Limit			
Left Turn Treatment	None				
Right Turn Treatment	Seagull				
Safe Intersection Sight Distance	300m +				
Pavement Condition	Sealed				

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

### **Baseline Traffic (Peak Hour Intersection Volumes)**

	l Traffic		S		2013						2015
AM Peak 5	5:30am to	6:30am									
PM Peak 5	5:15pm to	6:15pm									
(264) (7)	64 2 L 10 (3)	T R 39 (123)	Moranbah-Dysart Road	<i>Реак Dc</i> 268 214	owns Highway (45) (95)	(292) (8)	71 2 L 11 (3)	T R 43 (136)	T L Moranbah-Dysart Road	Peak Do 297 237	owns Highway (50) (105)
									GROWTH	I FACTOR	
								Survey Year	Future Year	Growth Rate	Factor
								2013	2015	5.39%	1.11
					2016						2017
(307) (8)	74 2 L 12 (3)	T R 45 (143)	Moranbah-Dysart Road	<i>Peak Do</i> 311 249	owns Highway (52) (110)	(321) (9)	78 2 L 12 (4)	T R 47 (150)	T L Moranbah-Dysart Road	- Реак Di 326 260	owns Highway (55) (115)
	2 L 12	R	L Vranbah-Dysart Road	311	(52)		2 L 12	R R 47	L Vranbah-Dysart Road	326	
	2 L 12	R	L Vranbah-Dysart Road	311 249	(52)		2 L 12	R R 47	L Vranbah-Dysart Road	326 260	(55)

### <u>Legend</u>

- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

### **Baseline Traffic (Peak Hour Intersection Volumes)**

					2018						2019
(335) (9)	81 3 L 13 (4)	<b>T</b> <b>R</b> 50 (156)	Moranbah-Dysart Road	<u>Реак Do</u> 340 272	owns Highway (57) (121)	(349) (9)	85 3 L 13 (4)	T R 52 (163)	T L Moranbah-Dysart Road	Реак Do 355 283	owns Highway (60) (126)
			GROWTH	I FACTOR					GROWTH	I FACTOR	
		Survey Year	Future Year	Growth Rate	Factor			Survey Year	Future Year	Growth Rate	Factor
		2013	2018	5.39%	1.27			2013	2019	5.39%	1.32
_					2020						2021
(364) (10)	88 3 L 14 (4)	<b>T</b> <b>R</b> 54 (169)	Moranbah-Dysart Road	- Реак Di 369 295	owns Highway (62) (131)	(378) (10)	92 3 L 14 (4)	T R 56 (176)	Moranbah-Dysarl Road	<u>Реак Do</u> 384 306	owns Highway (64) (136)
		Survey	GROWTH Future	FACTOR Growth	Factor			Survey	GROWTH Future	FACTOR Growth	Factor
		Year 2013	Year 2020	Rate 5.39%	1.38			<b>Year</b> 2013	Year 2021	Rate 5.39%	1.43
		2010	2020	0.0070	1.00			2010	2021	0.0070	1.10

- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

### **Baseline Traffic (Peak Hour Intersection Volumes)**

			2022						2023
(392) 95 (10) 3 <b>L</b> 15 (4)	N N N N N N N N N N N N N N N N N N N	– Peak Do <b>T</b> 398 L 318	owns Highway (67) (141)	(406) (11)	98 3 L 15 (5)	<b>T</b> <b>R</b> 60 (189)	Moranbah-Dysart Road	<i>Peak Do</i> 412 329	wns Highway (69) (146)
	GRO	OWTH FACTOR					GROWTH	FACTOR	
		ture Growth ear Rate	Factor			Survey Year	Future Year	Growth Rate	Factor
	2013 20	022 5.39%	1.49			2013	2023	5.39%	1.54
			2024	_					2025
(421) 102 (11) 3	т			(435)	105	т			
L 16 (5)	R Moranbah-D 62 I (196) -D	<u>Peak Do</u> T 427 L 341	owns Highway (72) (151)	(12)	3 L 16 (5)	R R 64 (203)	Moranbah-Dy	Peak Do 441 352	wns Highway (74) (156)
16	R 62 (196) Survey Year Year	<b>T</b> 427	(72)	(12)	<b>L</b> 16		L ranbah-Dysart Road	441	(74)

- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

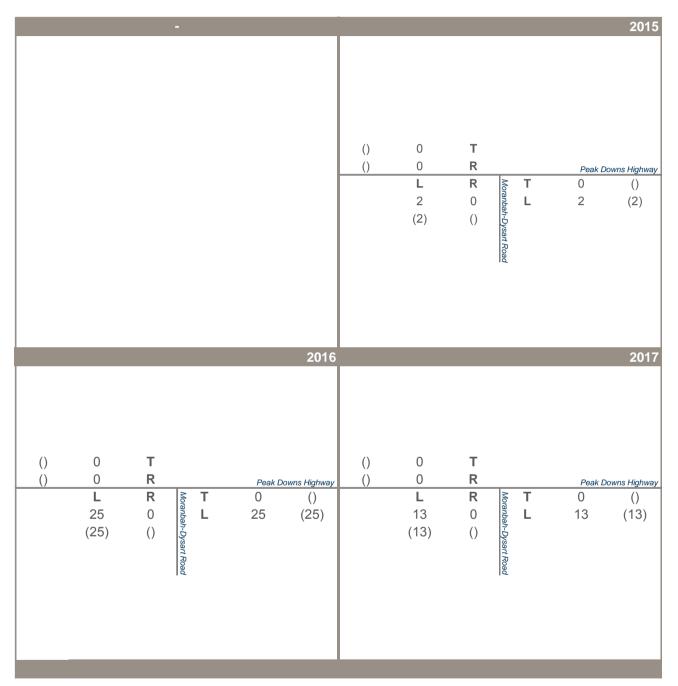
### **Baseline Traffic (Peak Hour Intersection Volumes)**

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					2026					2027
Survey Year         Future Year         Growth Rate         Factor           2013         2026         5.39%         1.70         2013         2027         5.39%         1.75           2013         2026         5.39%         1.70         2013         2027         5.39%         1.75           2013         2028         2013         2027         5.39%         1.75           (477)         116         T	3 L 17	R	Moranbah-Dysart Road	456	(77)	4 L 18	R	Moranbah-Dysart Road	470	(79)
Year         Year         Rate         Pactor           2013         2026         5.39%         1.70         2013         2027         5.39%         1.75           2013         2026         5.39%         1.70         2013         2027         5.39%         1.75           2013         2026         5.39%         1.70         2013         2027         5.39%         1.75           (477)         116         T			GROWTH	I FACTOR				GROWTH	FACTOR	
(477)     116     T       (13)     4     R       L     R     T       485     (81)       18     71       (5)     (222)       U     387       GROWTH FACTOR       Survey     Future       Growth     Factor					Factor					Factor
(477)       116       T         (13)       4       R       Peak Downs Highway         L       R       T       485       (81)         18       71       Jas       L       387       (172)         (5)       (222)       Heat Peak Downs Highway       For the Peak Downs Highway         E       R       T       485       (81)         18       71       Jas       L       387       (172)         (5)       (222)       Heat Peak Downs Highway       For the Peak Downs Highway         E       GROWTH FACTOR       For the Peak Downs Highway		2013	2026	5.39%	1.70		2013	2027	5.39%	1.75
(13)       4       R       Peak Downs Highway         L       R       T       485       (81)         18       71       1       387       (172)         (5)       (222)       0       5       -         End       End       End       End       End         Image: Survey       Future       Growth       Factor					2028					
Survey Future Growth Eactor	4 L 18	R	Moranbah-Dysart Road	485	(81)					
			GROWTH	I FACTOR						
Year Year Rate Pactor			Year		Factor					
2013 2028 5.39% 1.81		2013	2028	5.39%	1.81					

- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

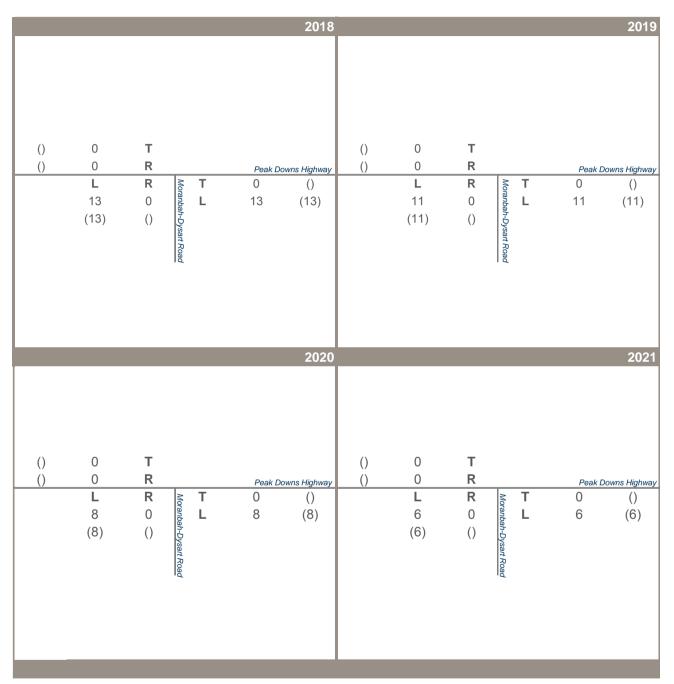
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

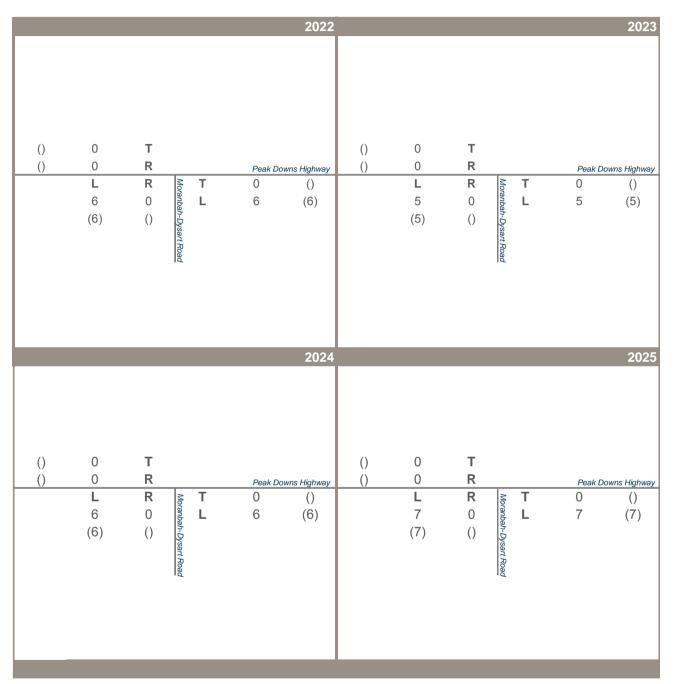
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

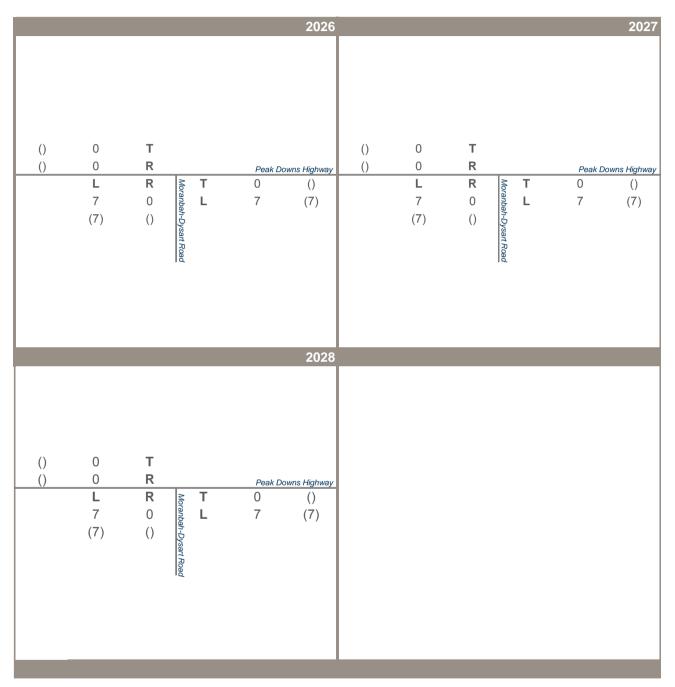
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

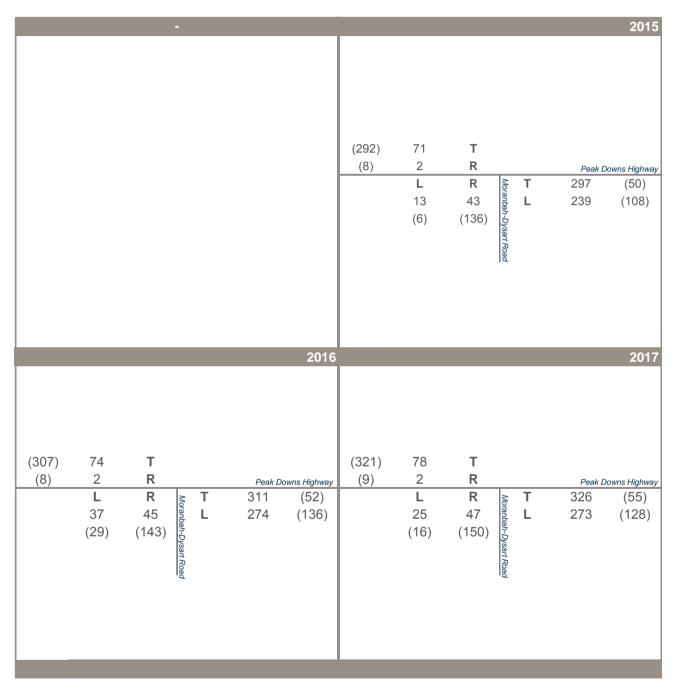
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

### **Design Traffic Volumes (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

### **Design Traffic Volumes (Peak Hour Intersection Volumes)**

					2018						2019
(335) (9)	81 3 26 (17)	T R 50 (156)		<i>Peak Do</i> 340 285	w <u>ns Hig</u> hway (57) (133)	(349) (9)	85 3 24 (15)	T R 52 (163)	Moranbah-Dysart Road	- Peak D 355 294	owns Highway (60) (137)
					2020						2021
(364) (10)	88 3 <b>L</b> 22 (12)	T R 54 (169)	: T . L	Peak Doi 369 303	wns Highway (62) (139)	(378) (10)	92 3 L 21 (11)	T R 56 (176)	Moranbalt-Dysart Road	- Peak D 384 313	o <u>wns Highway</u> (64) (142)

- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

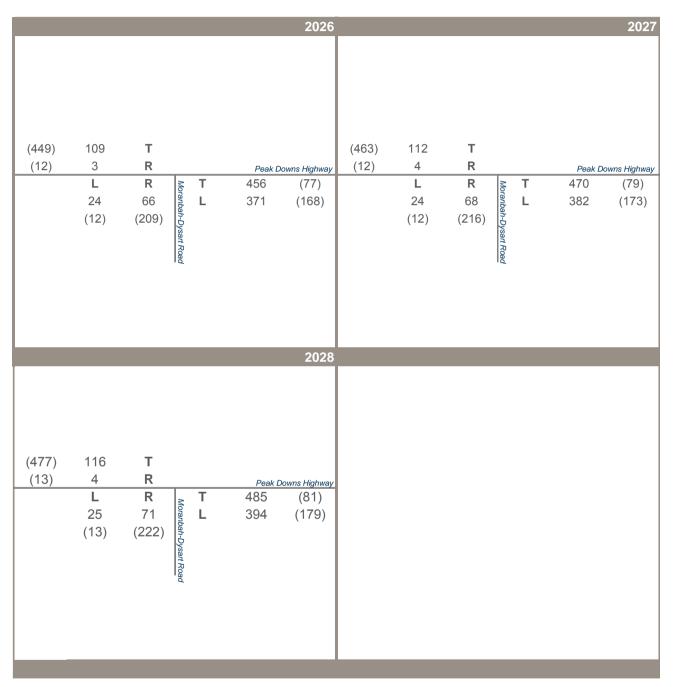
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**

					2022						2023
(392) (10)	95 3 21 (11)	T R 58 (183) Vysart Road	T L	<i>Peak Do</i> 398 324	<u>wns Highway</u> (67) (148)	(406) (11)	98 3 21 (10)	T R 60 (189)	Moranbah-Dysart Road	Peak D 412 335	o <u>wns Highway</u> (69) (152)
					2024						2025
(421) (11)	102 3 <b>L</b> 22 (11)	T R 62 (196)	T L		<del>wns Highway</del> (72) (157)	(435) (12)	105 3 <b>L</b> 23 (12)	T R 64 (203)	Moranbah-Dysart Road	Peak D 441 359	owns Highway (74) (163)

- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

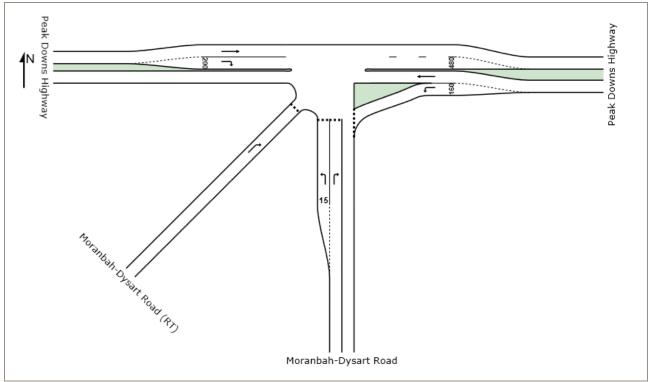
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	23 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

## **Operational Analysis: Intersection Configuration**



Note: Additional right turn leg represents seagull turn treatment.

### **Operational Analysis: Summary of Results**

		AM Peak			PM Peak		ccept able
Scenario	DOS	Critical Delay			Critical Delay		
2013 Survey	0.17	21 sec	6m	0.16	20 sec	3m	$\checkmark$
2018 Baseline and Project	0.21	22 sec	8m	0.21	20 sec	4m	$\checkmark$
2028 Baseline and Project	0.30	23 sec	12m	0.30	20 sec	6m	✓

Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	23 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

## Locality Plan



Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	23 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

## **Aerial Photo**



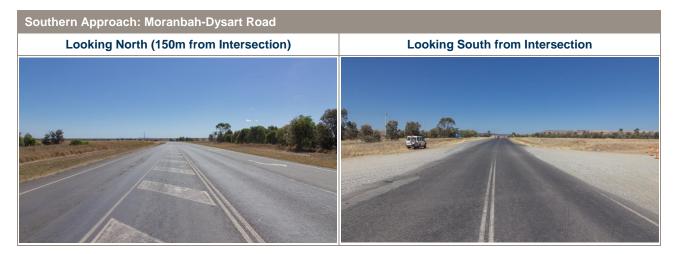
Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	23 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

### **Intersection Photos**



Eastern Approach: Potential CGPF Access





Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	23 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

Northern Approach: Moranbah-Dysart Road						
Jurisdiction	IRC					
Speed Limit	100km/hr	Default Rural Speed Limit				
Left Turn Treatment	none					
Right Turn Treatment	n/a					
Safe Intersection Sight Distance	290m +					
Pavement Condition	Sealed					

Eastern Approach: Potential CGPF Access					
Jurisdiction	IRC				
Speed Limit	100km/hr	Default Rural Speed Limit			
Left Turn Treatment	n/a				
Right Turn Treatment	n/a				
Pavement Condition	Gravel				

Southern Approach: Moranbah-Dysart Road					
Jurisdiction	IRC				
Speed Limit	100km/hr	Default Rural Speed Limit			
Left Turn Treatment	n/a				
Right Turn Treatment	none				
Safe Intersection Sight Distance	300m +				
Pavement Condition	Sealed				

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

## **Baseline Traffic (Peak Hour Intersection Volumes)**

	ffic Volum	es		2013						2015
AM Peak 5:45ar	n to 6:45am									
PM Peak 5:45pr	n to 6:45pm									
(178) 10 1 L 4 (1	R R 4	<b>T L</b> CGPF Access	Moranbal 240 12	n- <i>Dysart Road</i> (94) (3)	(197) ()	114 1 L 4 (1)	T R 4 (4)	CGPF Access	Moranbal 266 13	<u>h-Dysart Road</u> (104) (3)
								GROWTH	I FACTOR	
							Survey Year	Future Year	Growth Rate	Factor
							2013	2015	5.39%	1.11
				2016						2017
(207) 12 () 1 L 5 (1	<b>R</b> <b>R</b> 5	CGPF Access	Moranbal 279 14	<i>h-Dysart Road</i> (109) (3)	(216) ()	125 1 <b>L</b> 5 (1)	T R 5 (5)	CGPF Access	Moranba 292 15	<u>h-Dysart Road</u> (114) (4)
() 1 L 5	<b>R</b> <b>R</b> 5	PF Access	279	(109)		1 L 5	<b>R</b> <b>R</b> 5	L IPF Access	292	(114)
() 1 L 5	<b>R</b> <b>R</b> 5	PF L GROWTH	279 14	(109)		1 L 5	<b>R</b> <b>R</b> 5	L IPF Access	292 15	(114)

#### <u>Legend</u>

- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

## **Baseline Traffic (Peak Hour Intersection Volumes)**

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	<del>pah-Dysart Road</del> (124) (4)
GROWTH FACTOR GROWTH FACTO	<u>R</u>
SurveyFutureGrowth PearFactorSurveyFutureGrowth YearYearYearRateFactor	Factor
2013 2018 5.39% 1.27 2013 2019 5.39%	1.32
2020	2021
L R G T 331 (129) 6 6 6 (1) (6) 6 6 7 L 17 (4) 	<sup>bah-Dysart Road</sup> (135) (4)
GROWTH FACTOR GROWTH FACTO	<u>R</u>
Survey YearFuture RateGrowth FactorSurvey YearFuture YearGrowth Growth Rate	Factor
2013 2020 5.39% 1.38 2013 2021 5.39%	1.43

#### <u>Legend</u>

- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

## **Baseline Traffic (Peak Hour Intersection Volumes)**

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	sart Road
	(145) (5)
GROWTH FACTOR GROWTH FACTOR	
Base YearFuture YearGrowth RateFactorBase 	Factor
2013 2022 5.39% 1.49 2013 2023 5.39%	1.54
2024	2025
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	sart Road (155) (5)
GROWTH FACTOR GROWTH FACTOR	
Year Year Rate Year Rate	Factor
2013 2024 5.39% 1.59 2013 2025 5.39%	1.65

#### <u>Legend</u>

- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

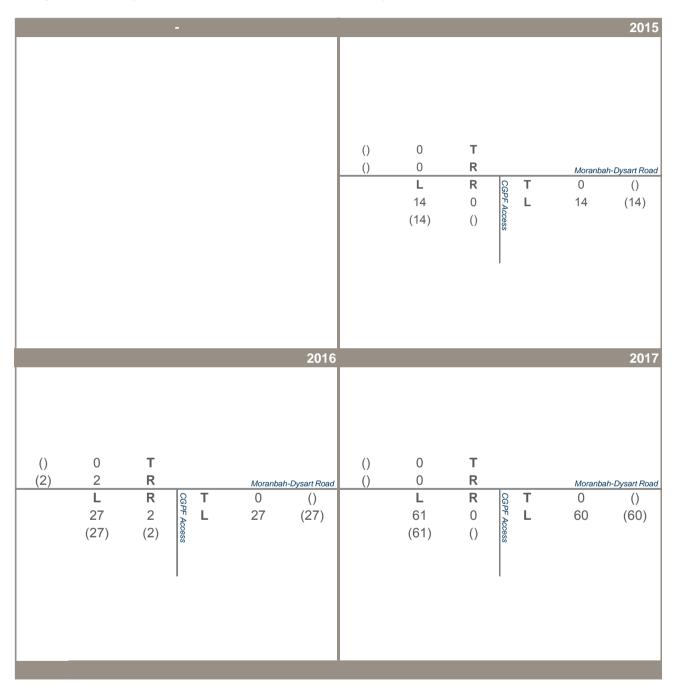
## **Baseline Traffic (Peak Hour Intersection Volumes)**

			2026						2027
(303) 175 () 2 L 7 (2)	T R CGPF Access (7)	408	<i>n-Dysart Road</i> (160) (5)	(312) ()	181 2 <b>L</b> 7 (2)	T R 7 (7)	CGPF Access	Moranbal 421 21	<i>n-Dysart Road</i> (165) (5)
	GRO	WTH FACTOR					GROWTH	FACTOR	
	Base Futu Year Yea		Factor			Base Year	Future Year	Growth Rate	Factor
	2013 202	6 5.39%	1.70 <b>2028</b>			2013	2027	5.39%	1.75
(322) 186 () 2 L 7 (2)	T R CGPF Access (7) SGRO	434	<i>h-Dysart Road</i> (170) (5)						
	Base Futu Year Yea		Factor						
	2013 202	8 5.39%	1.81						

- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

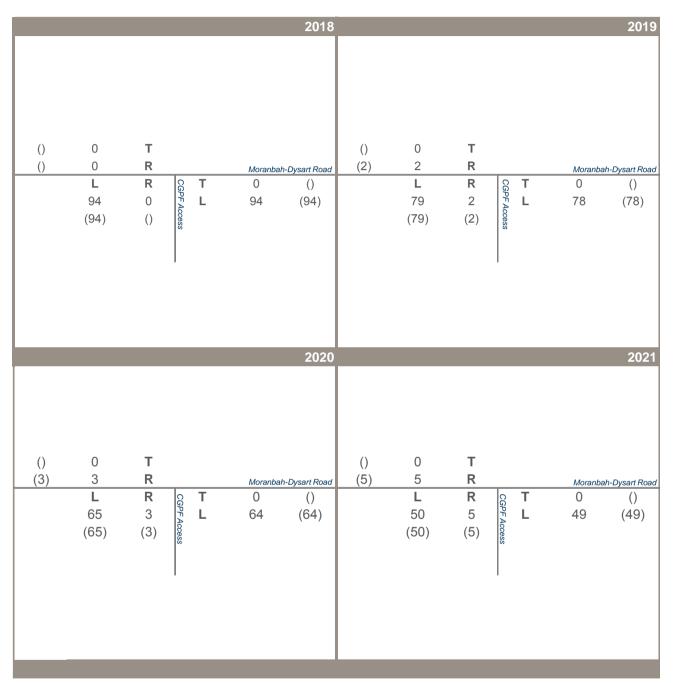
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

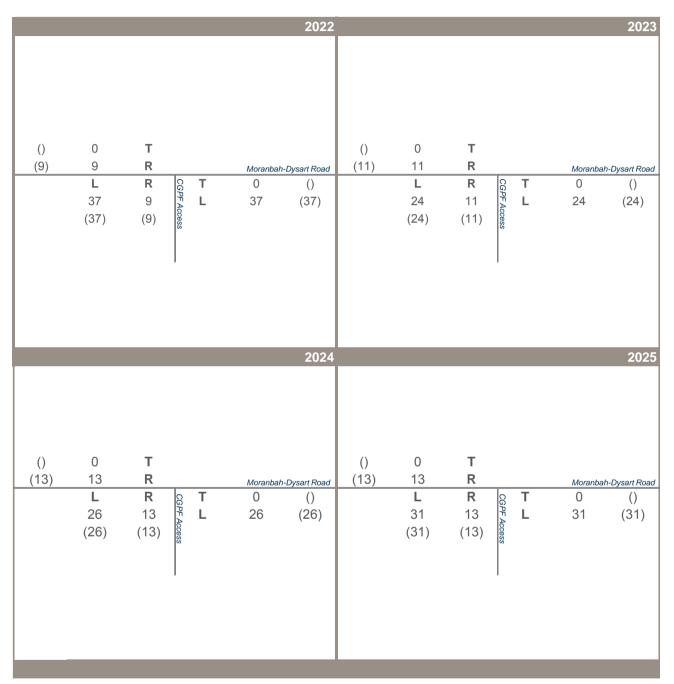
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

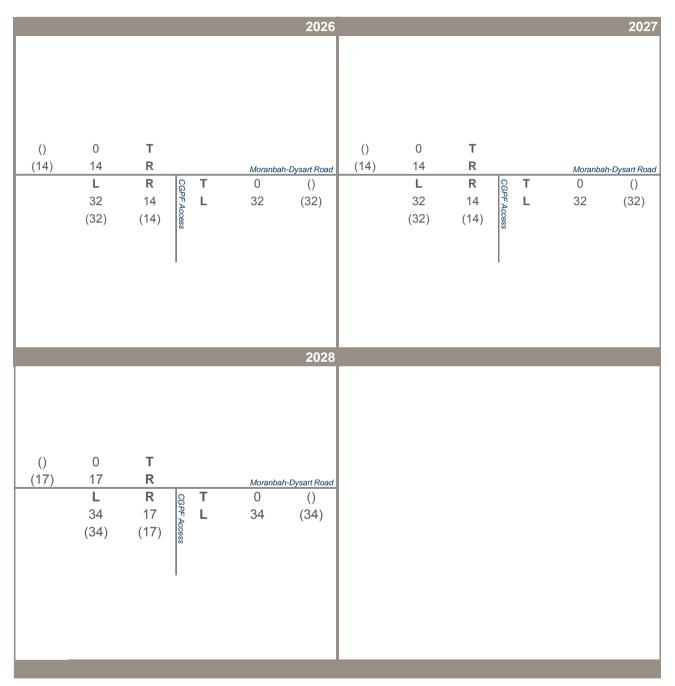
### **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

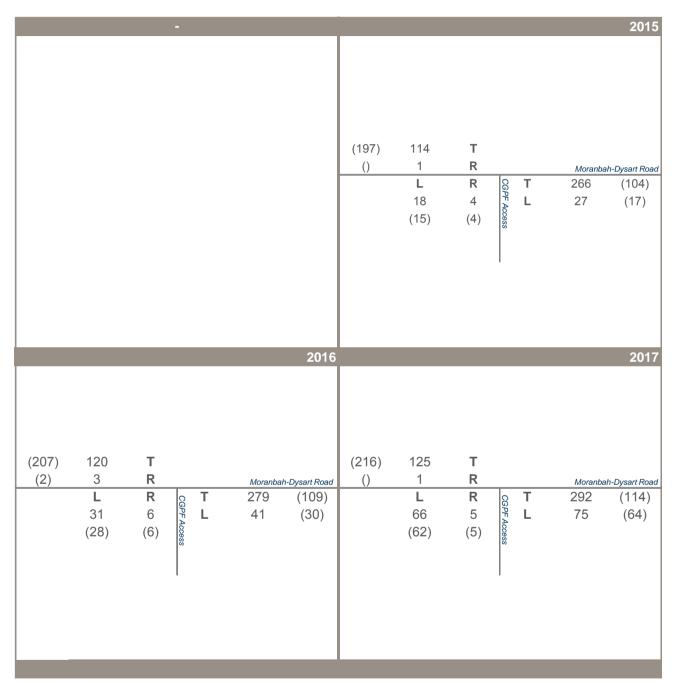
## **Project Traffic (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

### **Design Traffic Volumes (Peak Hour Intersection Volumes)**



- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

### **Design Traffic Volumes (Peak Hour Intersection Volumes)**

			2018						2019
()	131 <u>1</u> 99 (95)	T         CGPF         T           5         CGPF Access         L           (5)         (5)         (5)         (5)	<i>Moranbah-Dysart Road</i> 305 (119) 109 (97)	(236) (2)	136 3 <b>L</b> 84 (80)	T R 7 (7)	T L	Moranbah 318 94	- <i>Dysart Road</i> (124) (82)
			2020						2021
(3)	4 L 70	T R CGPF Access (8)	<u>Moranbah-Dysart Road</u> 331 (129) 81 (68)	(255) (5)	147 6 <b>L</b> 56 (51)	T R 11 (11)		<u>Moranbah</u> 343 66	- <i>Dysart Road</i> (135) (53)

- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

### **Design Traffic Volumes (Peak Hour Intersection Volumes)**

			2022						2023
(9) 1 L 4		T L CGPF Access	Moranbah-Dysart Road 356 (140) 55 (41)	(274) (11)	159 13 <b>L</b> 30 (25)	T R 18 (18)	T L	Moranbat 369 42	9- <i>Dysart Road</i> (145) (29)
			2024						2025
(284) 16 (13) 1 3 (2	L R 2 19	CGPF Access	<i>Moranbah-Dysart Road</i> 382 (150) 45 (31)	(293) (13)	170 15 <b>L</b> 37 (33)	T R 20 (20)	COBE Arress	Moranbal 395 51	<i>-Dysart Road</i> (155) (36)

- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

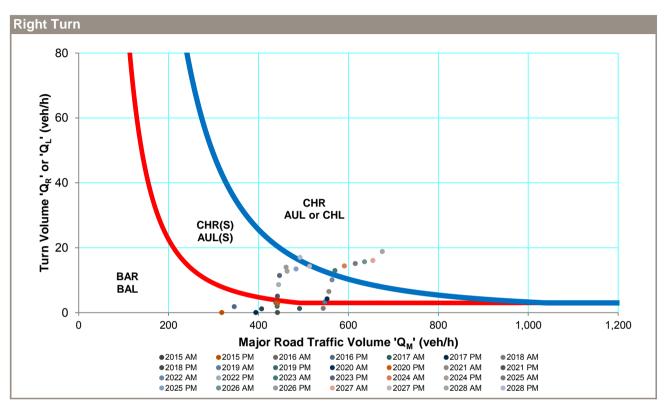
### **Design Traffic Volumes (Peak Hour Intersection Volumes)**

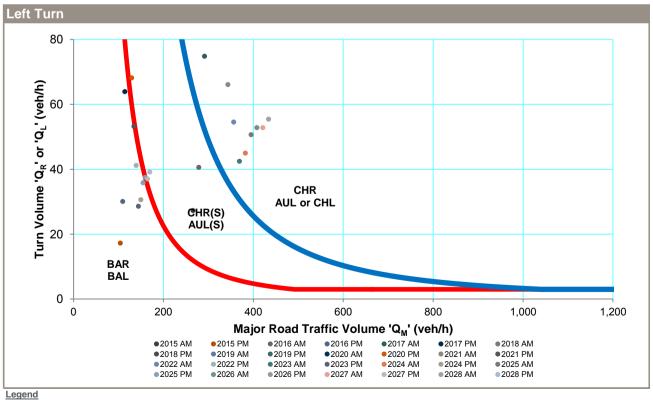
					2026						2027
(303) (14)	175 16 <b>L</b> 39 (34)	T R 21 (21)	CGPF Access	Moranba 408 53	<u>h-Dysart Road</u> (160) (37)	(312) (14)	181 16 <b>L</b> (33)	T R 21 (21)	CGPF Access	Moranba 421 53	ah-Dysart Road (165) (37)
					2028						
(322) (17)	186 19 <b>L</b> 41 (36)	T R 24 (24)	CGPF Access	Moranba 434 55	<i>h-Dysart Road</i> (170) (39)						

- L Left Turn Traffic Volume
- T Through Traffic Volumes
- R Right Turn Traffic Volume
- # AM Peak Hour
- (#) PM Peak Hour

Project: BGP SREIS RIA	Prepared by: Nathan Edwards	Date of Inspection: 22 October 2013
Project No: CEB06466	Reviewed by: Jeffrey Baczynski	Document Date: 5 December 2013

### **Turn Warrant Assessment**





BAR

Basic Right Turn

CHR Channelised Right Turn

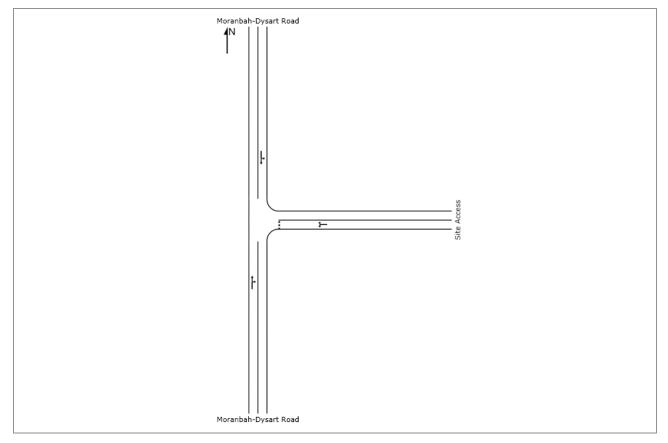
CHR(S) Channelised Right Turn (short) BAL Basic Left Turn CHL Channelised Left Turn

CHL(S) Channelised Left Turn (short)

Intersection 5 - Moranbah - Dysart Road/Potential CGPF Access - xvii

Project:	BGP SREIS RIA	Prepared by:	Nathan Edwards	Date of Inspection:	23 October 2013
Project No:	CEB06466	Reviewed by:	Jeffrey Baczynski	Document Date:	5 December 2013

### **Operational Analysis: Intersection Configuration**



## **Operational Analysis: Summary of Results**

		AM Peak			PM Peak		e pt
Scenario	DOS	Critical Delay	95 <sup>th</sup> %ile Queue	DOS	Critical Delay	95 <sup>th</sup> %ile Queue	Accept -able
2013 Survey	0.17	21 sec	4m	0.12	21 sec	5m	$\checkmark$
2018 Baseline and Project	0.28	22 sec	6m	0.15	21 sec	8m	$\checkmark$
2028 Baseline and Project	0.33	24 sec	10m	0.23	22 sec	13m	✓