



Gorgon Gas Development and Jansz Feed Gas Pipeline Greenhouse Gas Annual Report FY2022

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1 Introduction

1.1 Proponent

Chevron Australia Pty Ltd (CAPL) is the Proponent and the person taking the action for the Gorgon Gas Development and Jansz Feed Gas Pipeline (collectively referred to hereafter as the Gorgon Gas Development [the 'Proposal']) on behalf of these companies (collectively known as the Gorgon Joint Venture Participants):

- Chevron Australia Pty Ltd
- Shell Australia Pty Ltd
- Mobil Australia Resources Company Pty Ltd
- Osaka Gas Gorgon Pty Ltd
- Tokyo Gas Gorgon Pty Ltd
- JERA Gorgon Pty Ltd.

1.2 Purpose of this Annual Report

On 20 October 2022, the Minister for Environment; Climate Action published Ministerial Statement 1198 (MS 1198) which amended the Greenhouse Gas (GHG) related conditions of Ministerial Statement 800 (MS 800). The amended Condition 27.2 established annual GHG reporting requirements for the Gorgon Gas Development, as outlined in Table 1-1.

Table 1-1: Requirements for Annual GHG Emission Reporting¹

Item	Source	Section in this report
Quantity of Proposal GHG Emissions, Reservoir Carbon Dioxide, and Non-Reservoir GHG Emissions	MS 800, Condition 27.2a	2
Quantity of Reservoir Carbon Dioxide that has been injected underground in accordance with Condition 26	MS 800, Condition 27.2b	2
Number of terajoules of gas processed at the proposal facility	MS 800, Condition 27.2c	2
Number of terajoules of gas produced from the proposal facility determined in accordance with NGER Item 30(1)	MS 800, Condition 27.2d	2
Proposal GHG Emissions Intensity and Non-Reservoir GHG Emissions Intensity, including calculations and calculation methodology for each	MS 800, Condition 27.2e	2

¹ Reporting requirements per MS 800 as amended by MS 1198

1.3 Scope

This report is applicable to all scope 1 greenhouse gas emissions from the current operational Gorgon Gas Development facilities outlined in MS 800. This includes all scope 1 emissions from the Gas Treatment Plant (GTP) Trains 1, 2 and 3, Domgas Unit, Carbon Dioxide Injection System and associated terrestrial facilities such as the accommodation facility, utilities area and waste transfer station. Gorgon Gas Development emission sources occurring in Commonwealth waters are outside the scope of this report.

2 Emissions Results

Table 2-1 provides data on GHG emissions for the most recent financial year (1 July to 30 June; FY2022) as per Condition 27.2. Where relevant, parameters in Table 2-1 are defined in Section 3 and calculation methodologies are provided in Table 2-2. All emissions data has been calculated in accordance with the *National Greenhouse and Energy Reporting Act 2007 (Cth)* and its subsidiary legislation.

Table 2-1: Summary of GHG data for Financial Year 2022 (FY2022)

Parameter	Unit of Measure	Quantity
Quantity of Proposal GHG Emissions ¹	t CO ₂ e	8,297,497
Quantity of Proposal Reservoir Carbon Dioxide	t CO ₂ e	3,398,158
Quantity of Proposal Non-Reservoir GHG Emissions	t CO ₂ e	4,899,340
Quantity of Reservoir Carbon Dioxide injected underground in accordance with Condition 26.	t CO ₂ e	1,646,150
Terajoules of gas processed at the proposal facility.	TJ	1,135,592
Terajoules of gas produced from the proposal facility determined in accordance with NGER Item 30(1).	TJ	1,041,639
Proposal GHG Emissions Intensity ²	t CO ₂ e/TJ	7.97
Proposal Non-Reservoir GHG Emissions Intensity ²	t CO ₂ e/TJ	4.70

1 At the time of publication of this Annual Greenhouse Gas Report, Total Proposal GHG Emissions differ slightly from FY2022 NGER data published by the Clean Energy Regulator (CER). This is due to the exclusion of approximately 25,394 t CO₂e emissions occurring in Commonwealth waters as well as a data correction of ~4,000 t CO₂e. This data correction was notified to the CER on 2 December 2022, but had not been reflected in published data at the time of finalising this report.

2 Refer to Table 2-2 for Emission Intensity calculation methodology.

Table 2-2: Proposal GHG Emissions Intensity and Proposal Non-Reservoir GHG Emissions Intensity Calculations and Calculation Methodologies

Parameter	Unit of measure	Calculation Methodology	Calculation
Proposal GHG Emissions Intensity	t CO ₂ e/TJ	Total Proposal GHG Emissions / (Total energy from produced LNG + Condensate + Domgas)	8,297,497 / 1,041,639
Proposal Non-Reservoir GHG Emissions Intensity	t CO ₂ e/TJ	Total Proposal Non-Reservoir GHG Emissions / (Total energy from produced LNG+Condensate+Domgas)	4,899,340 / 1,041,639

3 Terminology

Table 3-1 defines the acronyms, abbreviations, and terminology used in this document.

Table 3-1: Terminology

Term	Definition
~	Approximately
ABU	Australian Business Unit
BWI	Barrow Island
CAPL	Chevron Australia Pty Ltd
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
GHG	Greenhouse Gas
Gorgon Gas Development	Gorgon Gas Development and Jansz Feed Gas Pipeline
GTP	Gas Treatment Plant
MS	(Western Australian) Ministerial Statement
MS 800	Western Australian Ministerial Statement 800 (for the Gorgon Gas Development) as amended from time to time
MS 1198	Western Australian Ministerial Statement 1198, (for the Gorgon Gas Development), as amended from time to time
NGER Act	Commonwealth <i>National Greenhouse and Energy Reporting Act 2007</i>
Non-Reservoir GHG Emissions	Proposal Emissions other than Reservoir Carbon Dioxide which have not been injected underground.
Non-Reservoir GHG Emissions Intensity	Non-Reservoir GHG Emissions per terajoule of gas produced from the proposal facility determined in accordance with NGER Item 30(1).
Proposal	Gorgon Gas Development, as expanded and revised by the Revised and Expanded Gorgon Gas Development
Proposal GHG Emissions	Scope 1 GHG Emissions released to the atmosphere as a direct result of an activity or series of activities that comprise/s or form/s part of the proposal, calculated in accordance with: (a) the National Greenhouse and Energy Reporting Act 2007 (Cth) and its subsidiary legislation; or (b) if that Act or the relevant subsidiary legislation is amended or repealed such that it does not provide a mechanism for calculating the Proposal Emissions, any other Act, regulation or instrument concerning greenhouse gases as specified by the CEO.
Proposal GHG Emissions Intensity	Proposal GHG Emissions per terajoule of gas produced from the proposal facility determined in accordance with NGER Item 30(1).
Reservoir Carbon Dioxide	GHG Emissions that are separated (from natural gas or the products produced from extracted hydrocarbons) in the acid gas removal units and expected to be subsequently injected underground (as per MS 1198).
Scope 1	Defined under the Greenhouse Gas Protocol (a Corporate Accounting and Reporting Standard) as 'all direct GHG emissions, where direct GHG emissions are emissions from sources that are owned or controlled by the reporting entity'
tCO ₂ e	Tonnes of carbon dioxide equivalent
TJ	Terajoule