



human energy®

# Gorgon Gas Treatment Plant Greenhouse Gas Management Plan: Summary Plan

<b>Document ID:</b>	<b>GOR-COP-03030</b>
<b>Revision ID:</b>	<b>1.0</b>
<b>Revision Date:</b>	<b>18 April 2023</b>
<b>Next Revision Due</b>	<b>18 April 2026</b>
<b>Information Sensitivity:</b>	<b>Public</b>

© 2023 by Chevron Australia Pty Ltd

This document contains proprietary information of Chevron Australia Pty Ltd. Any use of this document without express, prior, written permission from Chevron Australia Pty Ltd and/or its affiliates is prohibited.

This Gorgon Gas Treatment Plant (GGTP) Greenhouse Gas Management Plan (GHGMP): Summary Plan is to satisfy the requirements of condition 27.6(f) of Ministerial Statement 800, as amended by Ministerial Statement 1198.

<b>Proposal name</b>	Gorgon Gas Development Revised and Expanded Proposal: Barrow Island Nature Reserve
<b>Proponent name</b>	Chevron Australia Pty Ltd
<b>Proposal description and scope</b>	The construction of facilities for the development of the Greater Gorgon Gas Fields on the North-West Shelf, and the processing and export of the gas at a liquefied natural gas plant to be constructed on Barrow Island, as more generally described in the Draft Environmental Impact Statement / Environmental Review and Management Programme for the Proposed Gorgon Development, the Final Environmental Impact Statement/ Response to Submissions on the Environmental Review and Management Programme; as amended under Section 45C; and as expanded and revised in the Public Environmental Review for the Gorgon Gas Development Revised and Expanded Proposal and the Response to Submissions: Gorgon Gas Development Revised and Expanded Proposal, Public Environmental Review.
<b>Purpose of the GHGMP Summary Plan</b>	The purpose of this Greenhouse Gas Management Plan (GHGMP): Summary Plan is to satisfy the requirements of condition 27 of MS 800 (as amended by MS 1198).
<b>Compliance period</b>	20 October 2022 – 30 June 2025
<b>Emissions estimates</b>	<p>Emission estimates for the Gorgon Gas Treatment Plant (GGTP) for the remainder of the life of the proposal include:</p> <ul style="list-style-type: none"> <li>• Proposal GHG emissions (scope 1) - 211 Mt CO<sub>2</sub>e</li> <li>• Net Proposal GHG emissions (scope 1) – 92 Mt CO<sub>2</sub>e</li> <li>• Reservoir Carbon Dioxide emissions – 24 Mt CO<sub>2</sub>e</li> <li>• Non-Reservoir GHG Emissions – 187 Mt CO<sub>2</sub>e</li> </ul> <p>Average annual scope 1 emissions for the GGTP are estimated at 9.473 Mtpa CO<sub>2</sub>e.</p> <p>There are currently no scope 2 emissions associated with the GGTP.</p>
<b>Trajectory of emissions reductions</b>	<p>Chevron will take measures to reduce Net GHG Emissions from the GGTP in accordance with condition 27.1 of MS 800 (as amended by MS 1198) and provided graphically below.</p> <p>Condition 27.1. Subject to condition 27.2, the proponent shall take measures to ensure that Net GHG Emissions do not exceed:</p> <ul style="list-style-type: none"> <li>(a) 5,220,000 tonnes of CO<sub>2</sub>-e / year for the period until 30 June 2030;</li> <li>(b) 4,250,000 tonnes of CO<sub>2</sub>-e / year for the period between 1 July 2030 and 30 June 2035;</li> <li>(c) 3,220,000 tonnes of CO<sub>2</sub>-e / year for the period between 1 July 2035 and 30 June 2040;</li> <li>(d) 2,120,000 tonnes of CO<sub>2</sub>-e / year for the period between 1 July 2040 and 30 June 2045;</li> <li>(e) 1,090,000 tonnes of CO<sub>2</sub>-e / year for the period between 1 July 2045 and 30 June 2050; and in any event; and</li> <li>(f) zero tonnes of CO<sub>2</sub>-e / year for every five year period from 1 July 2050 onwards.</li> </ul>

	<table border="1"> <caption>Gorgon Project Total Scope 1 Emissions Footprint (9.473 Mtpa)</caption> <thead> <tr> <th>Year</th> <th>Annual Net Emissions (Mt CO<sub>2</sub>e)</th> <th>Reduction from 2022*</th> </tr> </thead> <tbody> <tr> <td>2022*</td> <td>5.2</td> <td>0%</td> </tr> <tr> <td>2030</td> <td>4.2</td> <td>45%</td> </tr> <tr> <td>2035</td> <td>3.2</td> <td>66%</td> </tr> <tr> <td>2040</td> <td>2.2</td> <td>78%</td> </tr> <tr> <td>2045</td> <td>1.2</td> <td>88%</td> </tr> <tr> <td>2050</td> <td>0</td> <td>100%</td> </tr> </tbody> </table> <p>*commencement of MST198</p>	Year	Annual Net Emissions (Mt CO <sub>2</sub> e)	Reduction from 2022*	2022*	5.2	0%	2030	4.2	45%	2035	3.2	66%	2040	2.2	78%	2045	1.2	88%	2050	0	100%
Year	Annual Net Emissions (Mt CO <sub>2</sub> e)	Reduction from 2022*																				
2022*	5.2	0%																				
2030	4.2	45%																				
2035	3.2	66%																				
2040	2.2	78%																				
2045	1.2	88%																				
2050	0	100%																				
<p><b>Key components in the GHG EMP</b></p>	<p><b>Proposal GHG emissions intensity</b></p> <p>GHG emissions intensity estimates for the GGTP for the remainder of the life of the proposal include:</p> <ul style="list-style-type: none"> <li>• Proposal GHG Emissions Intensity – 0.41 t CO<sub>2</sub>e/t LNG</li> <li>• Net Proposal GHG Emissions Intensity – 0.17 t CO<sub>2</sub>e/t LNG</li> <li>• Non-Reservoir GHG Emissions Intensity – 0.36 t CO<sub>2</sub>e/t LNG</li> </ul> <p><b>Benchmarking of Proposal GHG emissions intensity</b></p> <p>Proposal GHG Emissions Intensity for benchmarked, comparable facilities range from 0.33 t CO<sub>2</sub>e/t LNG (Pluto Train 1 and 2 combined) to 0.41 t CO<sub>2</sub>e/t LNG (Woodside North West Shelf Extension).</p> <p>Net Proposal GHG Emissions Intensity for benchmarked, comparable facilities range from 0.15 t CO<sub>2</sub>e/t LNG (Woodside North West Shelf Extension) to 0.28 t CO<sub>2</sub>e/t LNG (Chevron Wheatstone LNG Plant).</p> <p><b>GHG mitigation actions in design</b></p> <p>GHG emissions management was integrated into the design basis of the Gorgon Gas Development and a range of facilities and practices were adopted to avoid emissions through best practice design.</p> <p><b>GHG mitigation actions in operation (to 2035)</b></p> <p>Chevron Australia recognises the importance of innovation and continuing to apply mitigations through the subsequent steps of the mitigation hierarchy as critical to the success of achieving its interim and long-term emissions reduction targets. This includes continuous improvement to reduce emissions over the life of the project through Chevron’s CO<sub>2</sub> Injection System and GHG Optimisation Process and by offsetting emissions through the implementation of a GHG emissions offset package.</p> <p><b>GHG mitigation actions in operation (beyond 2035)</b></p> <p>Beyond 2035 there is greater uncertainty on the level of emissions reductions that may be achieved owing to a number of factors such as outcomes of GHG optimisation projects, realisation of technological advancements and availability of offsets. Information on the potential mitigation actions proposed for the post-2035 period will be outlined in future updates of the GGTP GHGMP and will reflect strategies and measures reasonably practicable at the time, noting the expectation that potential mitigations will develop over time and more effective mitigation alternatives may become available.</p>																					

	<p><b>Trajectory of emissions over the life of proposal under other statutory decision-making process</b></p> <p>The GGTP is subject to emissions baselines established under the Australian Government's Safeguard Mechanism (SGM). The current SGM baseline for the Gorgon Operations Facility is 8.37MTPA CO<sub>2</sub>-e per financial year.</p>
<p><b>GHG EMP reviews and reporting</b></p>	<p>Monitoring, auditing and public reporting of GHG emissions from the GGTP will be carried out in accordance with MS 800 (as amended by MS 1198), including:</p> <ul style="list-style-type: none"><li>• annual reporting per condition 27.2; and</li><li>• five-yearly reporting per condition 27.3.</li></ul> <p>The GGTP GHGMP will be reviewed and updated based on the results of adaptive management reviews and, as a minimum, every five years as required by condition 27.6 of MS 800 (as amended by MS 1198).</p>