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**mitsui** E&P  
Australia

# **Annual Greenhouse Gas Management Report FY25**

**REVIEW FREQUENCY**

Next Revision Date	Revision Cycle
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**REVISION DETAILS**

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**RELATED DOCUMENTS**

This document should be read in conjunction with following documents:

Document Number	Document Title
	Ministerial Statement 1164
P-WGP2-059	WGP2 – Greenhouse Gas Management Plan
WAT-HSE-REP-00004	Waitsia Gas Project Stage 2 (Ministerial Statement 1164) – Certified Improvement Report #1 Waste Heat Recovery Document Approval

**TERMS, ABBREVIATIONS AND DEFINITIONS**

Term or Abbreviation	Definition
CEO	Chief Executive Officer
CO <sub>2</sub> e	Carbon Dioxide Equivalent
DMS	Document Management System
DWER	Department of Water and Environmental Regulation
EPA	Environmental Protection Authority
EP Act	<i>Environmental Protection Act 1986</i>
GHG	Greenhouse Gas
GHGMP	Greenhouse Gas Management Plan
MEPAU	Mitsui E&P Australia Pty Ltd
May, Should	Discretionary
MS	Ministerial Statement
Must, Shall, Will	Mandatory, non-discretionary
Non-Reservoir Emissions	Proposal Emissions other than Reservoir Emissions.
Proposal Emissions	Scope 1 GHG Emissions released to the atmosphere as a direct result of an activity or series of activities that constitute the proposal, calculated in accordance with: <ul style="list-style-type: none"> <li>a) the National Greenhouse and Energy Reporting Act 2007(Cth) and its subsidiary legislation; or</li> <li>b) if that Act or the relevant subsidiary legislation is amended or repealed such that it does not provide a mechanism for calculating the Proposal Emissions, any other Act, regulation or instrument concerning greenhouse gases as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 Minister.</li> </ul>
Reservoir Emissions	The Proposal Emissions that were separated (from natural gas

	or products produced from extracted hydrocarbons) in an acid gas removal unit and released unused and unprocessed.
TJ	Terajoules
WGP	Waitsia Gas Plant
WGP2	Waitsia Gas Project Stage 2
WHRU	Waste Heat Recovery Unit

## 1.0 INTRODUCTION

MEPAU Perth Basin Pty Ltd is a wholly-owned subsidiary of Mitsui E&P Australia Holdings Pty Ltd, which in turn is a wholly-owned subsidiary of Mitsui & Co., Ltd. The Mitsui E&P Australia Holdings Pty Ltd group of companies operates under the brand Mitsui E&P Australia (MEPAU).

MEPAU is the proponent of Ministerial Statement 1164 (MS 1164) granted by the Environmental Protection Authority (EPA) on 1 February 2021 under Part IV of the *Environmental Protection Act 1986* (EP Act) for the Waitsia Gas Plant (WGP) and related infrastructure, collectively known as the Waitsia Gas Project Stage 2 (WGP2).

The Greenhouse Gas Management Plan (GHGMP) was prepared to support the assessment, approval and implementation of the Proposal.

MS 1164 has been amended several times since MS 1164 was granted with the latest version amended on 17 April 2024. The GHGMP Revision 6 was revised submitted to the EPA 12 June 2024, to satisfy Condition 8-7 of MS 1164, and was approved 25 July 2024.

## 2.0 PURPOSE

This Annual Greenhouse Gas (GHG) Management Report has been prepared in accordance with the following Conditions in MS 1164:

- Condition 8-1, for the period ending 30 June 2025, and for every subsequent period of five financial years, the proponent shall avoid, reduce and/or offset the quantity of Reservoir Emissions released to the atmosphere in that period;
- Condition 8-3, MEPAU is required to submit an annual report to the Department of Water and Environmental Regulation (DWER) Chief Executive Officer (CEO) quantifying Scope 1 GHG Emissions associated with the implementation of the Proposal, as defined in Table 1 of Schedule 1 of MS 1164. The report shall be submitted by 31 March and cover emissions released to the atmosphere from the previous financial year, including:
  1. The quantity of Proposal Emissions, Reservoir Emissions and Non-Reservoir Emissions;
  2. The number of terajoules of gas processed at the proposal facility;
  3. The number of terajoules of gas produced from the proposal facility determined in accordance with NGER Item 30(1);
  4. Total Emissions Intensity and Non-Reservoir Emissions Intensity, including calculations and calculation methodology for each;
- Condition 8-4, MEPAU shall submit to the CEO by 31 March 2026, and every fifth 31 March thereafter:

1. A report specifying:
  - (a) For each of the preceding five (5) financial years, the matters referred to in Conditions 8-3(1) to 8-3(4);
  - (b) For the period comprising five (5) financial years which ended on 30 June in the year before the report is due:
    - (i) The amount of Non-Reservoir Emissions that have been avoided or reduced through a Certified Improvement as contemplated by condition 8-2(1), including describing the Certified Improvement that caused the avoidance or reduction;
    - (ii) The type, quantity, identification or serial number, and date of retirement or cancellation of any Authorised Offsets which have been retired or cancelled as contemplated by condition 8-2(2), including written evidence of such retirement or cancellation;
    - (iii) The progress towards meeting the interim and long-term reduction targets for Proposal Emissions as specified in the Greenhouse Gas Management Plan; and
    - (iv) Any measures that have been implemented;
2. An audit and peer review of the report required by Condition 8-4(1), carried out by an independent person or independent persons with suitable technical experience dealing with the suitability of the methodology used to determine the matters set out in the report, whether the report is accurate and whether the report is supported by credible evidence. This report is to be made publicly available as required by condition 8-9.
- Condition 8-6, summary document comprising of a summary plan and progress statement outlining key information from the GHGMP (and reports to that time) must be provided every five years as per condition 8-4 and also if the GHGMP is revised under condition 8-7. The summary must include:
  - (a) A graphical comparison of emission reduction commitments in the GHGMP with 'actual' emissions for compliance periods;
  - (b) Proposal performance against benchmarking for comparable facilities;
  - (c) Emissions intensity;
  - (d) A summary of emission reduction measures undertaken by the proponent; and
  - (e) A clear statement as to whether interim targets have been achieved.

### 3.0 MANAGEMENT ACTIONS

#### 3.1 MA3 Implement GHG Monitoring and Reporting

##### 3.1.1 Proposal Emissions, Reservoir Emissions and Non-Reservoir Emissions

As per Condition 8-3(1), the FY25 GHG emissions were associated with operating the Gas Engine Generators 1, 2 and 3, venting and flaring during commissioning activities (Table 3-1). Xyris Production Facility processed gas was utilised to startup of the WGP infrastructure. No Reservoir Emissions from the Proposal were utilised in FY25.

**Table 3-1 Annual Greenhouse Gas Emissions**

Reporting Period	Proposal Emissions (tonnes CO <sub>2</sub> e-)	Reservoir Emissions (tonnes CO <sub>2</sub> e-)	Non-Reservoir Emissions (tonnes CO <sub>2</sub> e-)
1 July 2024 – 30 June 2025	4,488	0	4,488

##### 3.1.2 Gas Processed

As per Condition 8-3(2, 3), there was no gas processed or gas produced during implementation of the Proposal for FY25 determined in accordance with NGER Item 30(1), as the Proposal was in construction and early commissioning phases (**Error! Not a valid bookmark self-reference.**).

**Table 3-2 Volume of Produced and Processed Gas**

Reporting Period	Processed Gas (TJ)	Produced Gas (TJ)
1 July 2024 – 30 June 2025	0	0

##### 3.1.3 Total Emissions Intensity and Non-Reservoir Emissions Intensity

As per Condition 8-3(4), there was no gas processed or produced associated with the implementation of the Proposal for FY25, as the Proposal was in construction and early commissioning phases (Table 3-3). Therefore, there were no emissions associated with Total Emissions Intensity and Non-Reservoir Emissions Intensity.

**Table 3-3 Total Emissions Intensity and Non-Reservoir Emissions Intensity**

Reporting Period	Total Emissions Intensity	Non-Reservoir Emissions Intensity
1 July 2024 – 30 June 2025	0	0

#### 3.2 MA4 Achieve Emission Reduction Targets

##### 3.2.1 Reservoir Emissions

As per Condition 8-1, there were no Reservoir Emissions that were released to the atmosphere during implementation of the Proposal for the previous five financial years, as the Proposal was in construction and early commissioning phases.

### 3.3 MA8 Emission Reduction Targets Review

#### 3.3.1 Proposal Emissions, Reservoir Emissions and Non-Reservoir Emissions

As per Condition 8-4(1), there were no GHG emissions Scope 1 associated with the implementation of the Proposal during FY21 to FY24, as the Proposal was in a construction phase. FY25 GHG emissions were associated with operating the Gas Engine Generators 1, 2 and 3, venting and flaring during commissioning activities. Xyris Production Facility processed gas was utilised to startup the WGP infrastructure. No Reservoir Emissions from the Proposal were utilised.

**Table 3-4 Annual Greenhouse Gas Emissions**

Reporting Period	Proposal Emissions (tonnes CO <sub>2</sub> e-)	Reservoir Emissions (tonnes CO <sub>2</sub> e-)	Non-Reservoir Emissions (tonnes CO <sub>2</sub> e-)
1 July 2020 – 30 June 2021	0	0	0
1 July 2021 – 30 June 2022	0	0	0
1 July 2022 – 30 June 2023	0	0	0
1 July 2023 – 30 June 2024	0	0	0
1 July 2024 – 30 June 2025	4,488	0	4,488

#### 3.3.2 Gas Processed

As per Condition 8-4(1), there was no gas processed or gas produced during implementation of the Proposal for the previous five financial years determined in accordance with NGER Item 30(1), as the Proposal was in construction and early commissioning phases (Table 3-5).

**Table 3-5 Volume of Produced and Processed Gas**

Reporting Period	Processed Gas (TJ)	Produced Gas (TJ)
1 July 2020 – 30 June 2021	0	0
1 July 2021 – 30 June 2022	0	0
1 July 2022 – 30 June 2023	0	0
1 July 2023 – 30 June 2024	0	0
1 July 2024 – 30 June 2025	0	0

**3.3.3 Total Emissions Intensity and Non-Reservoir Emissions Intensity**

As per Condition 8-4(1), there was no gas processed or produced associated with the implementation of the Proposal for the previous five financial years, as the Proposal was in construction and early commissioning phases (Table 3-6). Therefore, there were no emissions associated with Total Emissions Intensity and Non-Reservoir Emissions Intensity.

**Table 3-6 Total Emissions Intensity and Non-Reservoir Emissions Intensity**

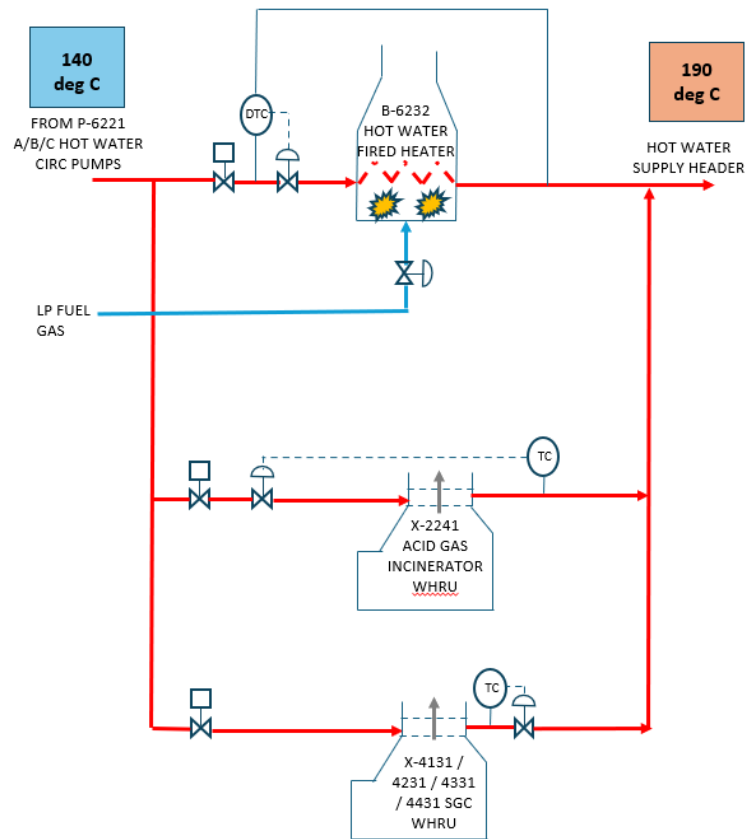
Reporting Period	Total Emissions Intensity	Non-Reservoir Emissions Intensity
1 July 2020 – 30 June 2021	0	0
1 July 2021 – 30 June 2022	0	0
1 July 2022 – 30 June 2023	0	0
1 July 2023 – 30 June 2024	0	0
1 July 2024 – 30 June 2025	0	0

**3.3.4 Certified Improvement**

As per Condition 8-2(1) and 8-4(1), the Waste Heat Recovery Units (WHRUs) are integrated on the Acid Gas Incinerator and the four Sales Gas Compressors at WGP. The addition of WHRUs can reduce overall emissions by capturing excess (waste) heat from the engine exhausts and re-utilising this heat in the Hot Water System. The transfer of waste heat reduces the amount of fuel gas which would have been consumed to generate the same amount of heat in the Hot Water System, as shown in Figure 3-1.

There were no Non-Reservoir Emissions avoided or reduced through implementation of the WHRUs Certified Improvement project associated with the implementation of the Proposal for the previous five financial years, as the Proposal was in a construction phase and the WHRUs had not been commissioned.

The first WHRU was commissioned on 03 December 2025 for the Sales Gas Compressor 2.



**Figure 3-1 Waste Heat Recovery System WGP**

### 3.3.5 Authorised Offsets

As per Condition 8-2(2) and 8-4(1), no Authorised Offsets were retired or cancelled, as there was no gas produced associated with the implementation of the Proposal for the previous five financial years, as the Proposal was in construction and early commissioning phases.

### 3.3.6 Emission Reduction Targets Review

As per Condition 8-4(1), no Emission Reduction Target initiatives to reduce Proposal Emissions, by either avoiding, reducing or offsetting, were associated with the implementation of the Proposal for the previous five financial years, as the Proposal was in construction and early commissioning phases. Therefore, an audit and peer review of the Periodic Greenhouse Gas Management Report – Emission Reduction Targets Review, was not carried out by an independent person or independent persons with suitable technical experience dealing with the suitability of the methodology used to determine the matters set out in the report.

The MEPAU Carbon Reference Plan which include all MEPAU operating and Joint Venture assets will be reviewed and updated in Q2/Q3 2026. The review will include the following:

- Future emissions;
- Emission reduction opportunities including setting interim and long-term reduction targets including; and
- Identifiable risks or increased to emission exposure.

A third party was engaged by MEPAU in 2023 to review and report on emissions reduction opportunities for the operations phase of the Proposal. The opportunities identified will be

reviewed in detail during the update of the Carbon Reference Plan, however the focus for FY27 will be process optimisation to achieve steady operations and minimise fuel, flare and vent. This will involve several small projects to improve process controls and upgrade of instrumentation / control valves to establish the lowest possible operational emissions baseline before implementing more complex change.