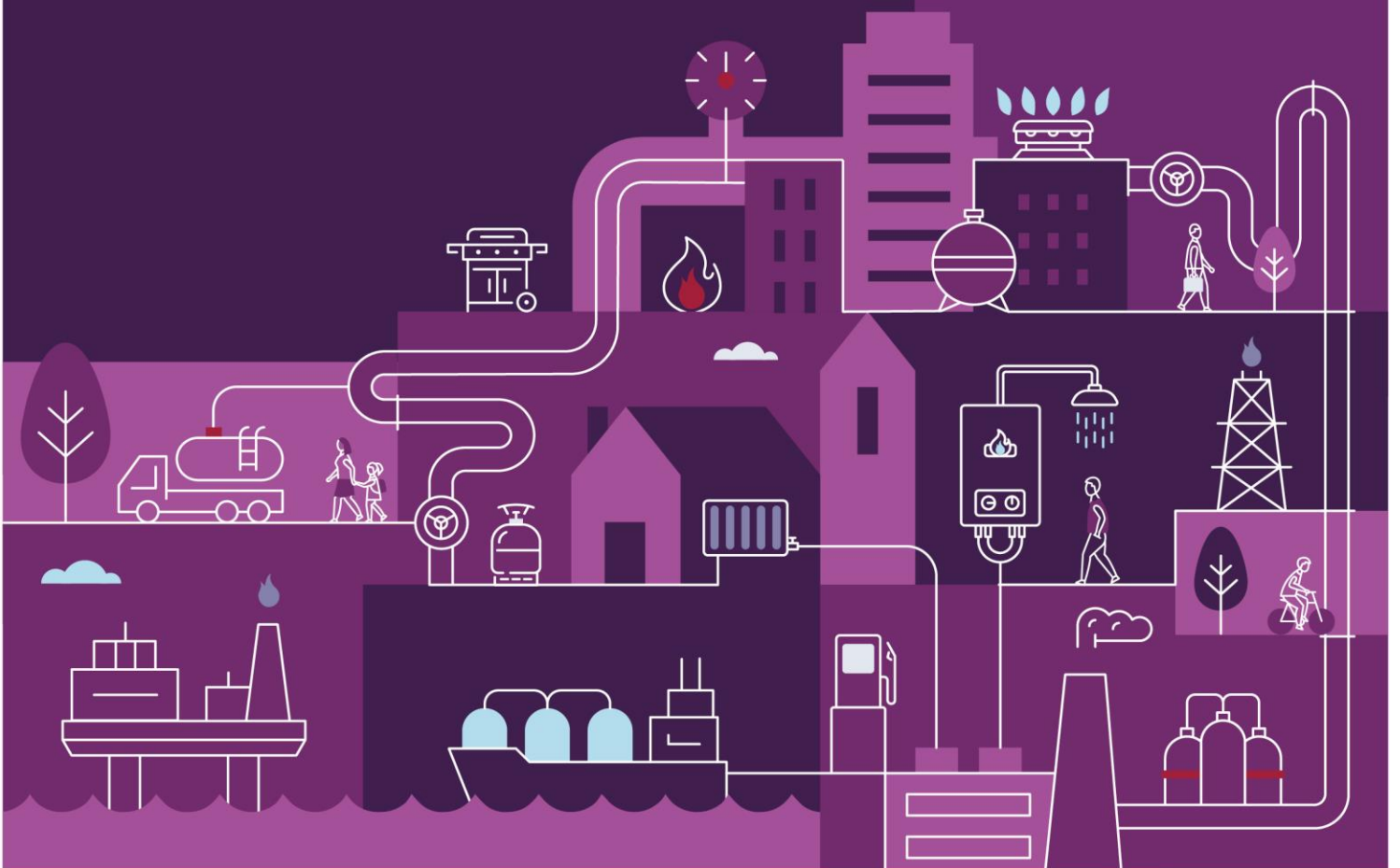


# Gas Supply Adequacy Methodology Information Paper

March 2025

For the 2025 Gas Statement of  
Opportunities for the  
East Coast Gas Market





**We acknowledge the Traditional Custodians of the land, seas and waters across Australia. We honour the wisdom of Aboriginal and Torres Strait Islander Elders past and present and embrace future generations.**

**We acknowledge that, wherever we work, we do so on Aboriginal and Torres Strait Islander lands. We pay respect to the world's oldest continuing culture and First Nations peoples' deep and continuing connection to Country; and hope that our work can benefit both people and Country.**

'Journey of unity: AEMO's Reconciliation Path' by Lani Balzan

AEMO Group is proud to have launched its first [Reconciliation Action Plan](#) in May 2024. 'Journey of unity: AEMO's Reconciliation Path' was created by Wiradjuri artist Lani Balzan to visually narrate our ongoing journey towards reconciliation - a collaborative endeavour that honours First Nations cultures, fosters mutual understanding, and paves the way for a brighter, more inclusive future.

## Important notice

### Purpose

AEMO has prepared this document to provide information about the methodology and assumptions used to produce gas supply adequacy forecasts for the 2025 Gas Statement of Opportunities under the National Gas Law and Part 15D of the National Gas Rules.

### Disclaimer

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# Contents

1	Introduction	4
1.1	Shared assumptions with other AEMO publications	4
1.2	Supporting material	5
2	Gas model	6
2.1	Model description	6
2.2	Data sources	7
2.3	Model implementation	7
	Abbreviations and glossary	14

## Tables

Table 1	Links to other supporting information	5
Table 2	Key inputs and the related data sources for the gas model	7

## Figures

Figure 1	AEMO's major long-term forecasting publications	5
Figure 2	Model inputs and outputs	8
Figure 3	Gas model topology for 2025 GSOO	9

# 1 Introduction

This document describes the methodology and assumptions used to assess supply adequacy for the 2025 *Gas Statement of Opportunities* (GSOO)<sup>1</sup>.

The GSOO reports on the adequacy of gas supply to meet maximum daily demand and annual consumption over a 20-year outlook period across the East Coast Gas Market spanning central and eastern Australia (that is, all Australian jurisdictions other than Western Australia). The adequacy assessment is performed using a model of gas supply and demand (gas model) that includes representations of:

- Existing, committed, and proposed new and expanded gas processing facilities.
- Existing, committed, and proposed new and expanded gas transmission pipelines.
- Existing, committed, and proposed new and expanded gas storage facilities.
- Gas reserves and resources.
- Gas consumption forecasts for residential, commercial, and industrial customers, gas-powered generation (GPG), and liquefied natural gas (LNG) exports.
- Alternative supply options including LNG regasification terminals.

The gas model balances daily supply and demand at least cost, by considering daily and annual gas reserve and resource availability, and pipeline, storage and processing infrastructure constraints.

Key outputs of the gas model include daily pipeline flows, gas production, and potential shortfalls.

The analysis is repeated for a range of scenarios and sensitivities, as outlined in the 2025 GSOO, to determine the robustness of outcomes to changes in modelled assumptions. Specific detail on scenarios used in the 2025 GSOO is available in the GSOO report.

## 1.1 Shared assumptions with other AEMO publications

The GSOO is part of a comprehensive suite of forecasting publications published by AEMO, an overview of which is shown in **Figure 1**.

The GSOO is an integrated component within the forecasting function of AEMO, and coordination across these publications ensures maximum internal consistency and allows robust insights across the energy landscape to be compiled. As an example, the methodologies used in determining the long-term evolution of the National Electricity Market (NEM) provided by AEMO's *Integrated System Plan* (ISP) are applied by the GSOO in forecasting expected gas consumption from GPG.

The GSOO also complements the *Victorian Gas Planning Report* (VGPR)<sup>2</sup>. Where appropriate, the GSOO and VGPR share common assumptions.

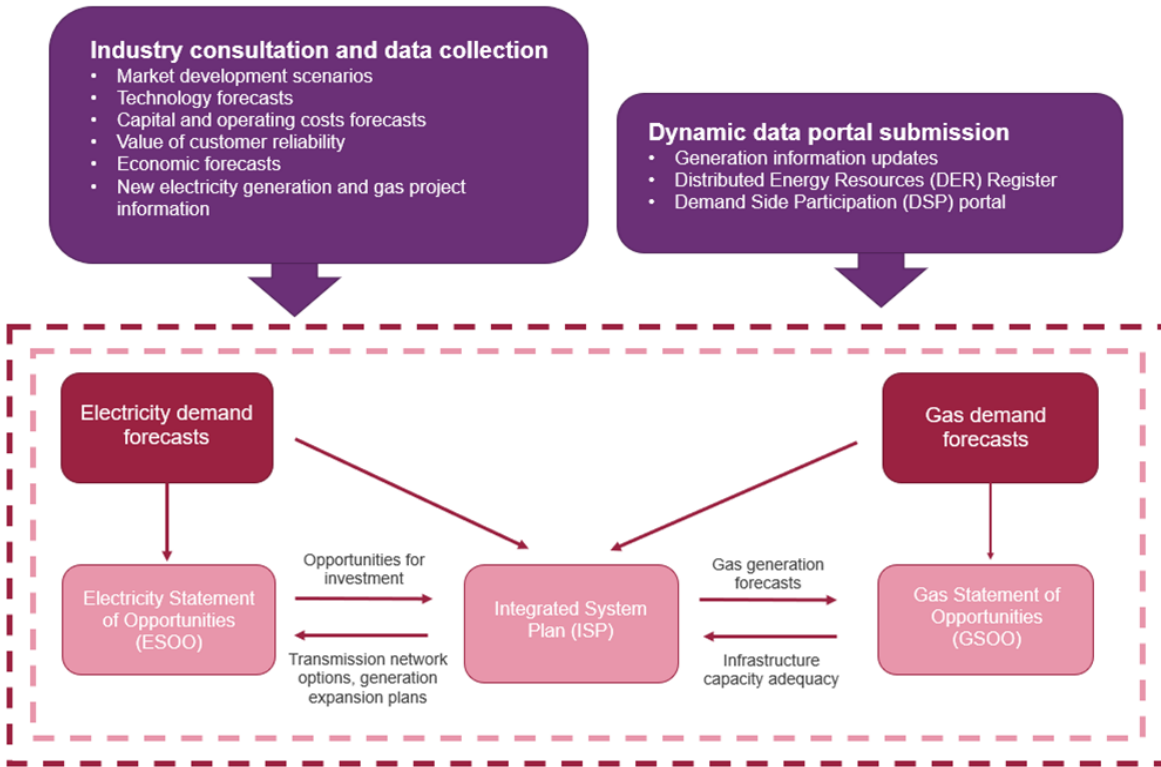
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<sup>1</sup> At <https://aemo.com.au/en/energy-systems/gas/gas-forecasting-and-planning/gas-statement-of-opportunities-gsoo>.

<sup>2</sup> At <https://www.aemo.com.au/energy-systems/gas/gas-forecasting-and-planning/victorian-gas-planning-report>.

AEMO specifically seeks to align inputs and assumptions across its different forecasting and planning documents published. These are available on AEMO’s website<sup>3</sup> and provide additional relevant background to GSOO data and modelling assumptions.

Figure 1 AEMO’s major long-term forecasting publications



## 1.2 Supporting material

A suite of resources has been published on the AEMO website to support the content in this methodology document and the 2025 GSOO report and can be found in **Table 1**.

Table 1 Links to other supporting information

Source	Website address
2025 GSOO inputs and information from survey of gas industry participants (for updated processing capacity of each facility used in the GSOO)	<a href="https://aemo.com.au/en/energy-systems/gas/gas-forecasting-and-planning/gas-statement-of-opportunities-gsoo">https://aemo.com.au/en/energy-systems/gas/gas-forecasting-and-planning/gas-statement-of-opportunities-gsoo</a>
2025 Gas Demand Forecasting Methodology	
Archive of previous GSOO reports	
GSOO Procedures	
National Electricity and Gas Forecasting Portal (AEMO Forecasting Portal)	<a href="http://forecasting.aemo.com.au">http://forecasting.aemo.com.au</a> or <a href="https://aemo.com.au/energy-systems/data-dashboards/electricity-and-gas-forecasting/">https://aemo.com.au/energy-systems/data-dashboards/electricity-and-gas-forecasting/</a>
Gas Bulletin Board (GBB)	<a href="https://www.aemo.com.au/energy-systems/gas/gas-bulletin-board-gbb">https://www.aemo.com.au/energy-systems/gas/gas-bulletin-board-gbb</a>
2024 Final Integrated System Plan	<a href="#">2024-integrated-system-plan-isp.pdf</a>

<sup>3</sup> At <http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Planning-and-forecasting/Inputs-Assumptions-and-Methodologies>.

## 2 Gas model

### 2.1 Model description

The gas model used for the GSOO is an energy supply model that simulates daily gas supply and demand balances over a 20-year timeframe. The model uses linear programming techniques to calculate the delivery of least-cost gas supply to demand centres, subject to infrastructure and operational constraints including:

- The direction and capacity of the pipeline network to deliver gas to demand centres.
- The capacity of gas processing facilities to deliver sufficient gas into the pipeline network.
- The capacity and availability of storage facilities to store excess gas for later injection into the pipeline network.
- The availability of reserves and resources to maintain processing throughput.
- Annual or daily production limitations from each field or group of fields and LNG regasification terminals.

The model computes energy balances at all levels of a gas system from reservoirs, basins or LNG regasification terminals to the demand centres, in each gas network node and time period, and supplies gas at minimum total system cost. Outputs consist of gas production (usually in terajoules a day [TJ/d]), pipeline flows (usually in TJ/d), and potential shortfalls and/or supply gaps (usually in petajoules [PJ]), among other things.

The linear programming formulation for the model is given by:

For each day and year,

Minimise: NPV (  $\sum_{\text{supply options}} \text{operation cost} + \sum_{\text{pipelines}} \text{operation cost} + \sum_{\text{processing units}} \text{operation cost} + \sum_{\text{storage facilities}} \text{operation cost} + \sum_{\text{demand centers}} \text{shortfall penalty}$  )

Subject to:

- Energy system balance
- Supply/demand balance at each node
- Pipeline capacity constraints
- Production/supply capacity constraints
- Gas storage capacity constraints

The gas model does not explicitly model supply contracts, pipeline pressure constraints, pipeline gas transportation agreements, or intra-day flows of gas.

The gas model outputs do not include economic optimisation for pipeline or field expansion projects to ensure all gas shortfalls are eliminated. The model solves for the content required for the GSOO, which is calculating the adequacy of existing, committed and anticipated projects to meet the future gas needs of consumers, as specified by the scenarios and sensitivities under analysis. The analysis is informed by participant surveys and data submissions. The GSOO may investigate some uncertain projects where they are well progressed, to determine their potential impact on the future gas system.

## 2.2 Data sources

AEMO uses a variety of sources to prepare the inputs to the gas model, as shown in **Table 2**.

**Table 2 Key inputs and the related data sources for the gas model**

Input	Source
<b>Demand projections</b>	AEMO Forecasting Portal, at <a href="http://forecasting.aemo.com.au">http://forecasting.aemo.com.au</a> or <a href="https://aemo.com.au/energy-systems/data-dashboards/electricity-and-gas-forecasting/">https://aemo.com.au/energy-systems/data-dashboards/electricity-and-gas-forecasting/</a> .
<b>Capacity of reserves and resources</b>	Gas industry participants, Gas Bulletin Board (GBB), at <a href="https://aemo.com.au/en/energy-systems/gas/gas-forecasting-and-planning/gas-statement-of-opportunities-gsoo">https://aemo.com.au/en/energy-systems/gas/gas-forecasting-and-planning/gas-statement-of-opportunities-gsoo</a>
<b>Production costs</b>	Rystad Energy and publicly available data Rystad Energy data at <a href="https://aemo.com.au/en/energy-systems/gas/gas-forecasting-and-planning/gas-statement-of-opportunities-gsoo">https://aemo.com.au/en/energy-systems/gas/gas-forecasting-and-planning/gas-statement-of-opportunities-gsoo</a>
<b>Transmission costs</b>	Gas industry participants and publicly available data
<b>Pipeline, processing, storage facility capabilities and daily rates</b>	Gas industry participants Gas Bulletin Board (GBB), and publicly available data GBB at <a href="https://www.aemo.com.au/energy-systems/gas/gas-bulletin-board-gbb">https://www.aemo.com.au/energy-systems/gas/gas-bulletin-board-gbb</a>
<b>Annual and daily field production limits</b>	Gas industry participants, and internal AEMO analysis
<b>Future electricity system demand and capacity (influencing GPG forecasts)</b>	AEMO's 2024 <i>Integrated System Plan</i> , at <a href="https://aemo.com.au/energy-systems/major-publications/integrated-system-plan-isp/2024-integrated-system-plan-isp">https://aemo.com.au/energy-systems/major-publications/integrated-system-plan-isp/2024-integrated-system-plan-isp</a>

### 2.2.1 Gas industry participants survey

AEMO surveys gas industry participants to obtain detailed gas information including:

- Processing facility capacities, committed, anticipated or uncertain future expansions or new projects.
- Pipeline capacities, and committed, anticipated or uncertain future expansions or new projects.
- LNG export facility capacities, and committed, anticipated or uncertain future LNG regasification terminals.
- Gas field project developments (including reserves and resources, annual and maximum daily field production forecasts)
- Storage facility capacities and committed, anticipated or uncertain future developments or new projects.
- Contracted supply.

For the 2025 GSOO, this information is up to date as of December 2024, although AEMO endeavours to incorporate more up-to-date information (where practical and material) to the analysis.

Collated results from the survey of gas industry participants are available on AEMO's website<sup>4</sup>. Example GSOO surveys can be found on AEMO's website<sup>5</sup>.

## 2.3 Model implementation

The following sections describe the implementation of the gas model.

<sup>4</sup> See 2025 Gas Processing, Transmission, and Storage Facilities in 2025 GSOO supply input data files, at <https://aemo.com.au/en/energy-systems/gas/gas-forecasting-and-planning/gas-statement-of-opportunities-gsoo>.

<sup>5</sup> See <https://aemo.com.au/energy-systems/gas/gas-forecasting-and-planning/gas-statement-of-opportunities-gsoo/timelines-procedures-and-surveys>.



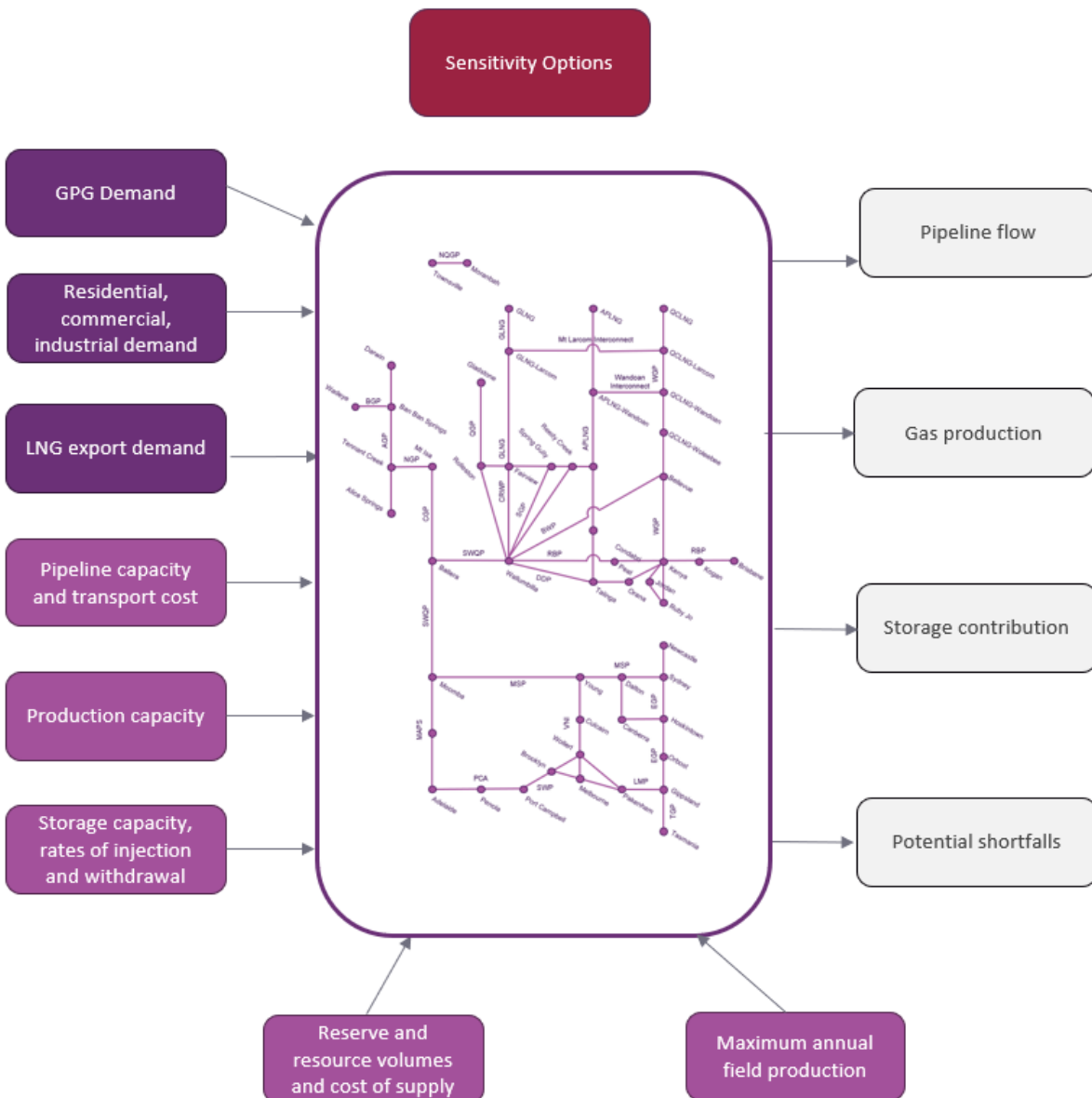
### 2.3.1 Gas network

Capacities from existing transmission and processing infrastructure, as well as publicly announced infrastructure augmentations, are used to determine total gas network capacity to facilitate supply.

Infrastructure augmentations may be treated as either committed or anticipated and included in the base modelling, or more uncertain and studied as sensitivities.

A representation of the gas model, with its inputs and outputs, is shown in **Figure 2**.

**Figure 2 Model inputs and outputs**

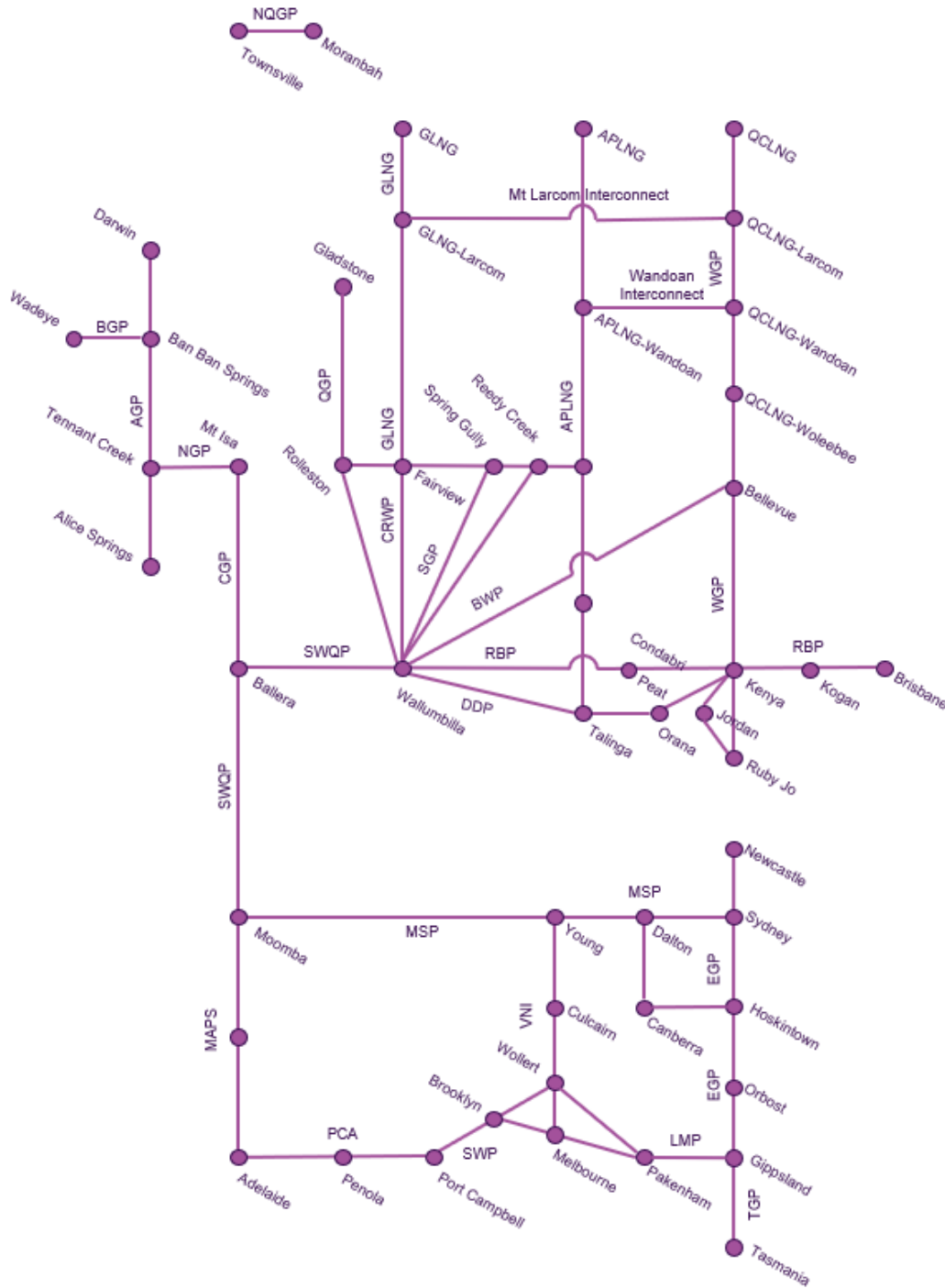


The gas network is represented by a series of connected nodes. At each node, gas may be injected into or withdrawn from the network where production facilities and loads are connected respectively.



Connections between nodes define paths which gas can flow between. Together, nodes and their associated connections define a topology. The topology of the gas model, shown in **Figure 3**, is designed to capture key features of the physical gas network such as demand centres (including for LNG export), pipelines, storages and producing fields. In many cases, a connection (or series of connections) represents an actual pipeline. Pipeline transmission costs are considered in the gas model optimisation to ensure that, where possible, gas flow paths are as realistic as possible.

**Figure 3 Gas model topology for 2025 GSOO**



See the pipeline abbreviations list at the end of this document for full pipeline names.

### 2.3.2 Gas project classifications

To allow consistent comparison of all projects within the gas supply chain (including field development, new supply projects, renewable gas opportunities, LNG regasification terminals, and infrastructure projects), AEMO applies the following project classifications:

- **Existing and committed** – gas fields and infrastructure that are already operating or have obtained all necessary approvals, with project implementation ready to commence or already underway.
- **Anticipated** – developers consider the project to be justified on the basis of a reasonable forecast of commercial conditions at the time of reporting, and reasonable expectations that all necessary approvals (such as regulatory approvals) will be obtained and final investment decision (FID) made.
- **Uncertain** – these projects are at earlier stages of development or face challenges in terms of commercial viability or approval.

These classifications are aligned with the Society of Petroleum Engineers – Petroleum Resource Management System (PRMS)<sup>6</sup> project maturity sub-classes<sup>7</sup>.

### 2.3.3 Gas fields and basins

The gas model represents fields and basins as quantities of gas supply connected at a specific location in the gas model topology, able to be produced by a particular processing facility or facilities.

A modelled field or basin may represent a single field, or an aggregation of fields. The decision as to whether a field is modelled as a specific single field, an aggregation of fields, or at overall basin level is based on the level of information available, whether from publicly available sources, stakeholder surveys or consultant advice. To reduce model complexity, if the level of information is available regarding individual field formations, but the granularity does not impact the modelled solution, the fields may be aggregated.

#### Reserves and resources

In the gas model, reserves and resources are consumed over the GSOO outlook period based on estimates of annual and daily supply availability, assuming 100% conversion to production is possible if required, considering demand levels, maximum available production, mid-stream infrastructure capabilities and production cost.

Gas supply to consumers relies on continued investment to identify, prove, and then exploit gas reserves and resources. AEMO's production forecasts rely heavily on surveys of producers to determine the available quantities of gas, the plans for extraction, and the capability and capacity of the gas processing plant. When forecasting gas production, uncertainties on both technical and commercial grounds must be considered.

Under the PRMS classification structure, each project represents a specific investment decision, with an associated quantity of recoverable gas reserves and resources, that may be more, or less, certain.

Gas developments are categorised according to the level of technical and commercial uncertainty associated with recoverability. These uncertainties could include securing finance, obtaining government approvals, negotiating contracts, overcoming geological challenges, or the quality/purity of the gas.

<sup>6</sup> See [https://www.spe.org/industry/docs/PRMS\\_Guidelines\\_Nov2011.pdf](https://www.spe.org/industry/docs/PRMS_Guidelines_Nov2011.pdf).

<sup>7</sup> Following stakeholder consultation, these classifications were implemented in the 2020 GSOO.

The following categories are applied across the industry:

- A gas **reserve** is a quantity of gas expected to be commercially recovered from known accumulations. When estimating the existing, committed, and anticipated gas reserves, the best estimate values are quoted as “proven and probable” (**2P**) reserves. When probabilistic methods are used, there should be at least a 50% probability that the quantities actually recovered will equal or exceed the sum of estimated proved plus probable reserves.
- Gas **resources** are defined as less certain, and potentially less commercially viable sources of gas. When estimating these uncertain resources, the best estimate of contingent resources (**2C**) is used.
- More broadly, there are also **prospective resources**, which are estimated volumes associated with undiscovered accumulations of gas. These resources are highly speculative and have not yet been proven by drilling.

Further detail about reserve and resource quantities can be found in the PRMS.

### Annual field production limits

The gas model satisfies demand by allocating remaining reserves and resources on a least cost basis by considering cost of production together with the cost of transporting the gas to the demand location subject to physical market constraints.

AEMO uses production forecasts provided by industry participants to provide an upper limit for the amount of gas capable of extraction out of each field or group of fields for each year. Where forecasts are unavailable in the long term, AEMO considers that a natural decline in production rate will occur for each category of reserves or resource, based on historical performance, and supplied forecast data.

Production limits are defined for existing, committed, anticipated, and uncertain projects, where they are included in a relevant case.

### Gas fields, processing facilities and cost of production

Gas production at processing facilities is determined by the gas model at a daily resolution. At each daily step, a modelled processing facility may supply gas up to its processing capacity. The gas model reflects any seasonality in production capability for the fields and facilities.

Each reserve and resource category of each field has a separate production cost, with the cost becoming more expensive in the order of:

- 2P developed reserves.
- 2P undeveloped reserves.
- 2C resources.
- Prospective resources.

The cost of each tranche of gas at each field is directly related to the geological and economical complexities of that specific field, and as such, the 2C resources at one location may be less expensive than the 2P developed reserves at another location, for example.

This cost is applied to every unit of gas produced by the associated processing facility.

Each processing facility<sup>8</sup> in the gas model may be associated with one or more fields.

### 2.3.4 LNG regasification terminals

In modelling LNG regasification terminals, AEMO optimises operation of these facilities, with all other gas facilities, on a least-cost basis, considering the technical limits of the plant, or shipment limitations, at daily and/or annual granularity. Constraints on securing gas (such as gas availability, financial or technical limitations) are not considered.

### 2.3.5 Storage

The gas model optimises gas storage operation considering the rate and cost of injection into and withdrawal from a storage facility, as well as storage depth. The injection and withdrawal behaviour of each storage facility is optimised to meet local peak demand fluctuations at least cost. In addition, when storages are drawn below their buffer levels, withdrawing capacity will be reduced.

The gas model also aims to replenish annual storage inventory to ensure that storage levels at the beginning of each year are the same by the end of the year and stored gas is available for future years. If there are high risks of shortfalls in certain years, the gas model will prioritise meeting the demand over refilling storages to their initial volumes.

### 2.3.6 Pipelines

The GSOO model considers all major pipelines shown in Figure 3. At each daily step, a modelled pipeline may flow up to its daily capacity limitation, which may limit production from upstream facilities. In cases where the capacity of a pipeline significantly changes across winter and non-winter seasons, such variations are also included in the modelling upon available data from surveys. Flow is optimised by taking into account transport cost – or pipeline tariffs – on each pipeline in the modelled system.

AEMO considers pipeline capacity to be static in most cases; for more complicated pipeline systems, such as the Victorian Declared Transmission System (DTS), this broad assumption leads to inaccurate pipeline flows. To better reflect the dynamic operation of the Victorian DTS and operational issues inherent in sending gas between Melbourne and Port Campbell, the gas model implements a dynamic pipeline capacity for the South West Pipeline (SWP). The dynamic treatment considers:

- The SWP transportation capacity towards Melbourne increases as DTS demand increases.
- The SWP transportation capacity from Melbourne towards Port Campbell is at its maximum on days of low DTS demand and decreases as DTS demand increases.

See the 2025 VGPR<sup>9</sup> for more detailed information on the SWP capacity limitations.

<sup>8</sup> Similar to previous GSOO publications, the Ballera processing facility has not been included in the 2025 GSOO. Gas flowing through the Ballera facility is not incremental to gas processed at the Moomba processing facility. The inclusion of both facilities would result in duplication of processing capacity as gas flowing through Ballera has been captured in the Moomba processing facility.

<sup>9</sup> At <https://www.aemo.com.au/energy-systems/gas/gas-forecasting-and-planning/victorian-gas-planning-report>. See Section 5.

The GSOO model also includes additional constraints in the model which are reflective of operational limitations on maximum pipeline capacities due to the relative dynamic interactions between Moomba to Sydney Pipeline (MSP) laterals (Young to Sydney and Young to Culcairn) based on the enhanced data received via surveys.

### 2.3.7 Distribution and transmission losses

Distribution and transmission losses are reflected in the customer demand by adjusting the demand with the loss amount (see *Gas Demand Forecasting Methodology Information Paper*<sup>10</sup>). They are therefore not directly included in the supply adequacy model.

### 2.3.8 Daily demand profile development

The gas model applies daily demand profiles developed from forecasts of all demand sectors within the regions covered by this GSOO.

For more information about the development of the forecasts for each demand sector and the key assumptions used, refer to the *Gas Demand Forecasting Methodology Information Paper*.

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<sup>10</sup> See 2025 Gas Statement of Opportunities Methodology – Demand Forecasting, at <https://aemo.com.au/en/energy-systems/gas/gas-forecasting-and-planning/gas-statement-of-opportunities-gsoo>.

# Abbreviations and glossary

## Abbreviations

Abbreviation	Expanded name
<b>AEMO</b>	Australian Energy Market Operator
<b>DTS</b>	Declared Transmission System
<b>FID</b>	Final Investment Decision
<b>GBB</b>	Gas Bulletin Board
<b>GSOO</b>	Gas Statement of Opportunities
<b>ISP</b>	Integrated System Plan
<b>LNG</b>	Liquefied natural gas
<b>NEM</b>	National Electricity Market
<b>NPV</b>	Net present value
<b>VGPR</b>	Victorian Gas Planning Report

## Pipeline abbreviations

Abbreviation	Expanded name
<b>AGP</b>	Amadeus Gas Pipeline
<b>BGP</b>	Bonaparte Gas Pipeline
<b>BWP</b>	Berwyndale Pipeline
<b>CGP</b>	Carpentaria Gas Pipeline
<b>CRWP</b>	Comet Ridge to Wallumbilla Pipeline
<b>DDP</b>	Darling Downs Pipeline
<b>EGP</b>	Eastern Gas Pipeline
<b>LMP</b>	Longford to Melbourne Pipeline
<b>MAPs</b>	Moomba to Adelaide Pipeline System
<b>MSP</b>	Moomba to Sydney Pipeline
<b>NGP</b>	Northern Gas Pipeline
<b>NQGP</b>	Northern Queensland Gas Pipeline
<b>PCA</b>	Port Campbell to Adelaide Pipeline
<b>QGP</b>	Queensland Gas Pipeline
<b>RBP</b>	Roma Brisbane Pipeline
<b>SGP</b>	Spring Gully Pipeline
<b>SWP</b>	South West Pipeline
<b>SWQP</b>	South West Queensland Pipeline
<b>TGP</b>	Tasmania Gas Pipeline
<b>VNI</b>	Victoria Northern Interconnect
<b>WGP</b>	Wallumbilla to Gladstone Pipeline

## Glossary

Term	Definition
<b>2C resources</b>	Best estimate of contingent resources – equivalent to 2P, except for one or more contingencies or uncertainties currently impacting the likelihood of development. Can move to 2P classification once the contingencies are resolved.
<b>2P reserves</b>	The sum of proved and probable estimates of gas reserves. The best estimate of commercially recoverable reserves, often used as the basis for reports to share markets, gas contracts, and project economic justification.
<b>adequacy</b>	Sufficient gas supply to meet demand in a given day and/or year.
<b>annual consumption</b>	Gas consumption reported for a given year.
<b>contingent resources</b>	Gas resources that are known but currently considered uncommercial based on one or more uncertainties (contingencies) such as commercial viability, quantities of gas, technical issues, or environmental approvals.
<b>demand</b>	Capacity or gas flow on an hourly or daily basis, or the electrical power requirement met by generating units.
<b>developed reserves</b>	Gas supply from existing wells.
<b>Gas Bulletin Board (GBB)</b>	A website ( <a href="http://gbb.aemo.com.au">gbb.aemo.com.au</a> ) managed by AEMO that provides information on major interconnected gas processing facilities, gas transmission pipelines, gas storage facilities, and demand centres in eastern and south-eastern Australia. Also known as the Natural Gas Services Bulletin Board or the Bulletin Board.
<b>Gas generation</b>	The generation of electricity using gas as a fuel for turbines, boilers, or engines.
<b>liquefied natural gas (LNG)</b>	Natural gas that has been converted into liquid form for ease of storage or transport.
<b>LNG regasification terminal</b>	A facility that receives, stores, and processes LNG back into its gaseous state before injecting it into the gas transmission pipeline network.
<b>probable reserves</b>	Estimated quantities of gas that have a reasonable probability of being produced under existing economic and operating conditions. Proved and probable reserves added together make up 2P reserves.
<b>peak demand</b>	The highest demand day in a year or season.
<b>production</b>	In the context of defining gas reserves, gas that has already been recovered and produced.
<b>prospective resources</b>	Gas volumes estimated to be recoverable from a prospective reservoir that has not yet been drilled. These estimates are therefore based on less direct evidence than other categories.
<b>proved and probable</b>	See 2P reserves.
<b>proved reserves</b>	Estimated quantities of gas that are reasonably certain to be recoverable in future under existing economic and operating conditions. Also known as 1P reserves.
<b>reservoir</b>	In geology, a naturally occurring storage area that traps and holds oil and/or gas. Iona UGS is also referred to as a reservoir for gas storage.
<b>reserves</b>	Reserves are quantities of gas which are anticipated to be commercially recovered from known accumulations
<b>resources</b>	More uncertain and less commercially viable than reserves. See contingent resources and prospective resources.
<b>undeveloped reserves</b>	Gas supply from wells yet to be drilled.