

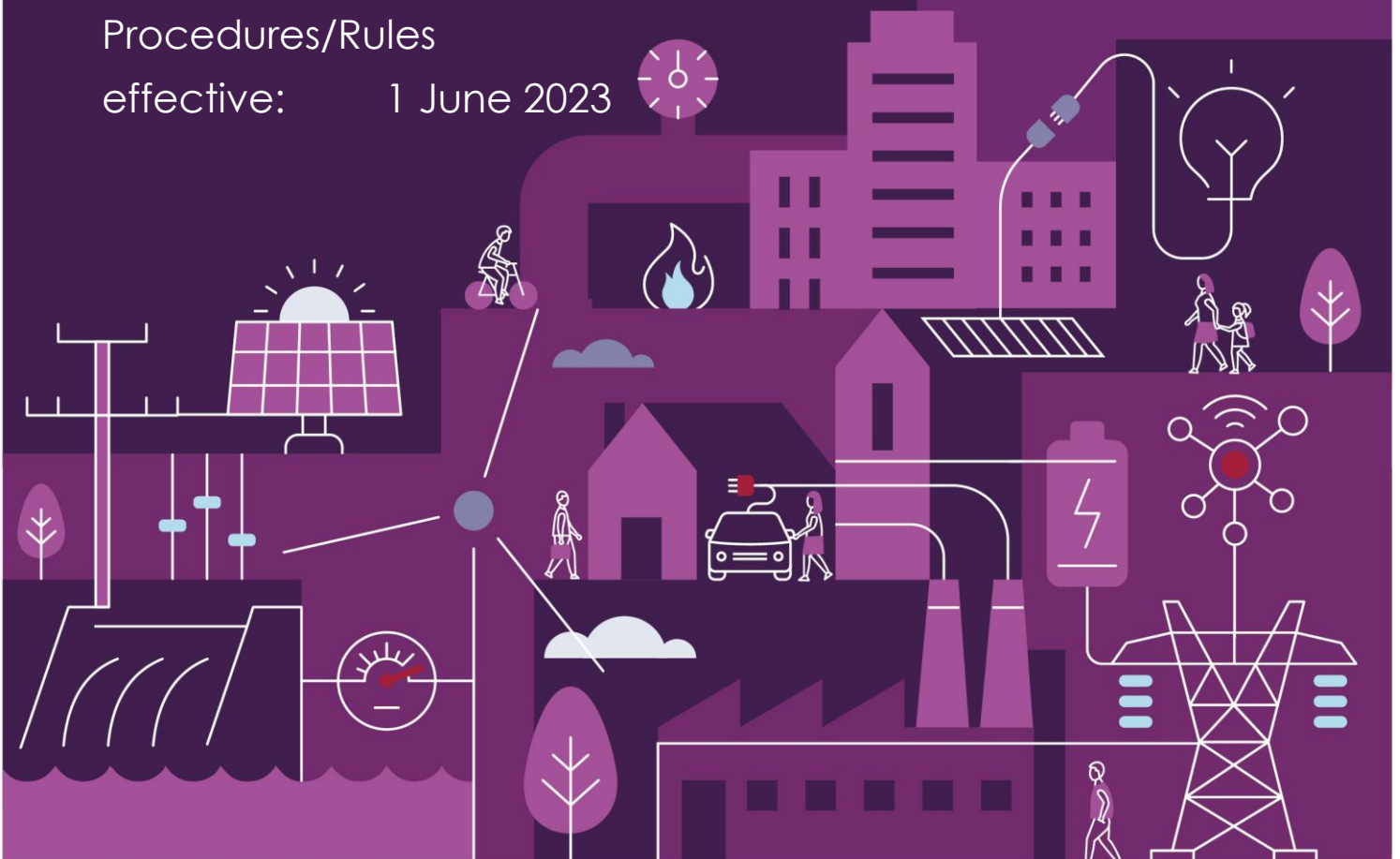
Gas BB Technical Specification - June 2023

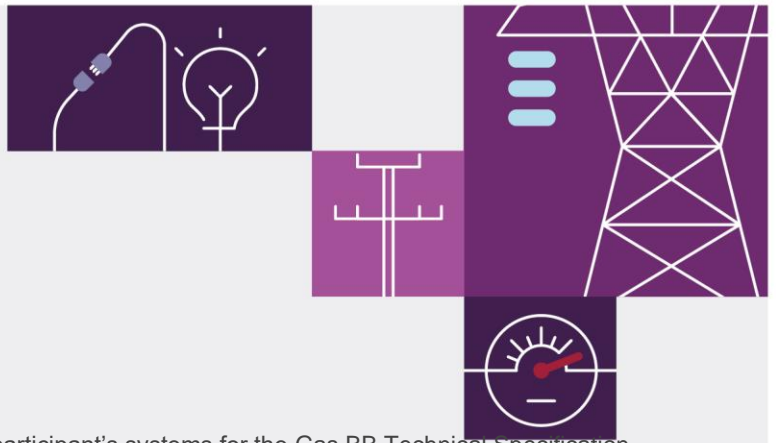
1.1 August 2023

Enhancement pre-production: Wednesday
13 September 2023

Enhancement production: Wednesday
20 September 2023

Procedures/Rules
effective: 1 June 2023





Important notice

Purpose & audience

This document describes the technical changes required to participant's systems for the Gas BB Technical Specification - June 2023 (Release). The Australian Energy Market Operator (AEMO) provides this information as a service targeting business analysts and IT staff in participant organisations. It provides guidance about the changes to their market systems under the National Gas (Rules), as at the date of publication.

How to use this document

- If you have questions about the business aspects of these changes, please see Consultations on AEMO's website.
- The references listed throughout this document are primary resources and take precedence over this document.
- Unless otherwise stated, you can find resources mentioned in this guide on AEMO's website.
- **Text in this format** is a link to related information. Some links require access to MarketNet.
- **Text in this format**, indicates a reference to a document on AEMO's website.
- **Text in this format** is an action to perform in the Markets Portal.
- This document is written in plain language for easy reading. Where there is a discrepancy between the Rules and information or a term in this document, the Rules take precedence.
- Rules Terms have the meaning listed against them in the **National Gas Rules**.

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Distribution

Available to the public.

Document identification

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Version history

1.1 Submission API enhancement

Documents made obsolete

The release of this document changes only the version of Gas BB Technical Specification - June 2023.

Contact us

To contact AEMO's Support Hub use Contact Us on AEMO's website or for urgent matters phone: 1300 AEMO 00 (1300 236 600).



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Introduction

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1 Introduction

1.1 Audience

AEMO provides this information as a service targeting business analysts and IT staff in Registered Participant companies.

1.2 Objective

The Gas BB Technical Specification - June 2023 (Release) describes the projects planned by AEMO from a participant perspective and includes any system related changes for participants.

1.3 Status

Version	Status
1.1	Add Submission API enhancement release dates and information.
1.02	Update pre-production implementation dates.
1.01	Revise Linepack Forecast API endpoint URL.
1.0	More detailed information with the design. We still expect changes to the final design while review and testing are in progress.
0.1	Revise release dates and information about the design.
0.01	Presents the Gas BB Technical Specification - June 2023 evolving design. Please send feedback to techwriters@aemo.com.au

1.4 Release dates

Scheduled for implementation in:

- Enhancement pre-production: Wednesday 13 September 2023
- Enhancement production: Wednesday 20 September 2023
- Pre-production: Wednesday 31 May 2023
- Production: Wednesday 28 June 2023

1.5 Projects and enhancements

Changes and enhancements for this Release include:

No.	Functionality	Change	Affected interface	Reference
	GBB private reports available using the Submission API	API endpoints for retrieving GBB private reports	n/a	Submission API
	New submission data for the East Coast Gas System	See Implementation of East Coast Gas System Procedures .	Gas Bulletin Board	BB Data Submission Guide

1.6 Rule and procedure changes

Title	Project	Version/status	Effective
National Gas (South Australia) (East Coast Gas System) Amendment Act 2023	ECGS Tranche 1	Final	27 April 2023
National Gas Amendment (East Coast Gas System) Rule 2023	ECGS Tranche 1	Final	4 May 2023
BB Procedures	ECGS Tranche 1	Final	1 June 2023
East Coast Gas System Procedures	ECGS Tranche 1	Final	1 June 2023
National Gas Amendment (East Coast Gas System) Rule 2023 – Division 2 of Part 27 (disclosure obligations)	ECGS Tranche 1	Final	4 July 2023

1.7 Related documents

Once published, these resources take precedence over this technical specification

These guides and resources are updated according to this technical specification and published for the pre-production Release Date.

Title	Description	Status
BB Data Submission Guide	A guide describing data elements and validation rules for information to be provided to the Natural Gas Services Bulletin Board.	Complete
API portal (pre-prod)	The portal provides API reference information, API specification and Postman collection for the Submission API.	In progress
Markets Portal Help	Information about the GBB submissions and reports interfaces in the Markets Portal.	Complete

1.8 Version numbers

AEMO releases new versions of this document as the technical requirements are streamlined.

Incremental version numbers such as 1.01, 2.01 and so on mean there is a minor change to the technical specification.

Major version numbers such as 1.00, 2.00 means there are substantial changes to the technical specification. Participants must carefully review these changes, detailed below.

1.9 Changes in this version

- Add Submission API enhancement pre-production and production release dates.
- Add information about Submission API private report endpoints.

2 Proposed Timeline

Milestone	Date	Description
Revised Technical Specification	August 2023	<p>AEMO releases new versions of this document as the technical requirements are streamlined. During the project this document is the source of truth.</p> <p>From the pre-production release, the technical specification is no longer updated, the related documents become the source of truth.</p> <p>Release schedules and technical specifications</p>
Related Documents publication	Wednesday 31 May 2023	Release of guides and resources mentioned in Related on page 2
Pre-production refresh	4 March 2024 – 8 March 2024	Refresh of the pre-production system with data refreshed from the production system. An outage of up to five days can occur to the pre-production environment during this period. Participant access is not restricted, however, AEMO do not guarantee the pre-production data content or system availability. During the refresh, access to other AEMO systems such as AWEFS, EMMS, OPDMS, and STTM may be intermittently affected
Pre-production implementation	31 May 2023	<p>AEMO implements components of the Release to pre-production for participant testing</p> <p>AEMO has full access to the system during this period</p> <p>Participant access is not restricted; however, the data content or system availability is not guaranteed</p>
Production implementation	28 June 2023	AEMO implements the release to production

Proposed Timeline

Milestone	Date	Description
Enhancement pre-production implementation	13 September 2023	<p>AEMO implements components of the Release to pre-production for participant testing</p> <p>AEMO has full access to the system during this period</p> <p>Participant access is not restricted; however, the data content or system availability is not guaranteed</p>
Pre-production available	Wednesday 13 September 2023	<p>AEMO implements components of the Release to pre-production for participant testing</p> <p>AEMO has full access to the system during this period</p> <p>Participant access is not restricted; however, the data content or system availability is not guaranteed</p>
Enhancement production implementation	20 September 2023	AEMO implements the release to production
Production systems available	Wednesday 20 September 2023	Production systems available to participants

3 Gas Bulletin Board Data Submission

3.1 Overview

The Gas Bulletin Board has new and updated data submissions to comply with the [National Gas Rules \(NGR\) Part 27: East coast gas system reliability and supply adequacy](#) and the [East Coast Gas System \(ECGS\) Tranche 1](#).

3.2 Data changes

The following ECGS data can be submitted to the Gas Bulletin Board:

- [Expected Daily Gas Demand](#)
- [Linepack Forecast](#)
- [Domestic Supply Forecast](#)
- [Export Forecast](#)
- [Medium Term Capacity Outlook](#) submissions for ECGS includes two new fields.

ECGS data can be submitted to the Gas Bulletin Board using the existing methods:

- [Markets Portal](#) – Submitting csv files in the Markets Portal
- [Submission API](#) – Making an API request to the endpoint for the ECGS submission type.

3.2.1 High-level changes

Function	Description	Reference
GBB	Additional data submissions to comply with NGR Part 27: East coast gas system reliability and supply adequacy	BB Data Submission Guide
Submission API	New and modified API endpoints for submitting GBB data to comply with NGR Part 27: East coast gas system reliability and supply adequacy	APIs
Markets Portal	Additional functionality in the GBB interfaces to submit and view Part 27 data	Markets Portal Help

3.3 Expected Daily Gas Demand

Note: Subject to modification based on current feedback from industry consultation.

Transaction name	EXPECTED_DAILY_GAS_DEMAND
Purpose	Provide on each gas day D-1 for gas days D to D+6, the <i>relevant entities</i> expected daily gas demand, and estimated breakdown of supply sources.
Submission cut-off time	10.00 pm on gas day D-1.
Rollover	No rollover.
Required by	<i>Relevant entities</i> that are <i>Part 27 retailers</i> , the <i>BB reporting entity</i> for a <i>BB large user facility</i> , and the <i>relevant entity</i> for an <i>LNG export project</i> .
Exemptions	
Notes	This is a Part 27 submission only.

3.3.1 Data elements and fields

Data	Data Field Name	Description	Mandatory	Data Type	Example/ Allowed Values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Conditional This field is mandatory where the submission is for a <i>BB large user facility</i> or a <i>LNG export project</i>	int	520345
Gas Date	GasDate	Date of gas day. Any time component supplied will be ignored. The gas day is that applicable under the pipeline contract or market rules.	Yes	Datetime	2018-09-23
Forecast Quantity	ForecastQuantity	The forecast quantity of gas to be consumed in the corresponding Demand Zone for a Part 27 retailer. The forecast quantity of gas to be consumed by the Large User Facility. The forecast quantity of gas to be consumed by the LNG Export Project. Value in TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	Yes	number(18,3)	32.232 25.2 (if Forecast Quantity is 25.200)
Demand Zone Id	DemandZoneId	A unique AEMO defined demand zone identifier.	Conditional This information is mandatory	Varchar(20)	SESA-DE-01

Data	Data Field Name	Description	Mandatory	Data Type	Example/ Allowed Values
			for <i>Part 27</i> retailers. Otherwise this must be left blank.		
Purchases Gas Supply Agreement	PurchasesGSA	The expected daily gas demand that is to be provided by a gas supply agreement. Value in TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	Yes	number(18,3)	32.232 25.2 (if Forecast Quantity is 25.200)
Purchases Gas Supply Hub	PurchasesGSH	The expected daily gas demand that is expected to be purchased from a gas trading exchange. Value in TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	Yes	number(18,3)	32.232 25.2 (if Forecast Quantity is 25.200)
Gas Supply Hub Location	GSHLocation	The Trading Location relating to the PurchasesGSH. Value can be Null where PurchasesGSH is 0.	Yes, except when the PurchasesGSH is zero.	Varchar(100)	Wallumbilla, SEQ, MAP, MSP, Wilton, Calcaim, ADP, Multiple
Market Purchases from demand zone	PurchasesMktSameZone	The expected daily gas demand that is expected to be purchased from a market in the same demand zone. Value in TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	Yes	number(18,3)	32.232 25.2 (if Forecast Quantity is 25.200)
Market Purchases from different	PurchasesMktDiffZone	The expected daily gas demand that is expected to be purchased from a market in a different demand zone.	Yes	number(18,3)	32.232 25.2 (if Forecast Quantity is 25.200)

Data	Data Field Name	Description	Mandatory	Data Type	Example/ Allowed Values
demand zone		Value in TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.			
Description	Description	Description to provide further context on where the source of supply is coming from, details of the portfolio approach (if applicable), and/or basis for estimates for each demand zone.	No	Varchar(400)	The volume of the expected daily gas demand that is to be purchased under a gas supply agreement includes XX TJ of volume from a gas swap agreement.

3.3.2 Requirements

- Forecast Quantity values represent physical consumption to be supplied from the corresponding demand zone and must be submitted in TJs accurate to three decimal places.
- A Part 27 relevant entity is not required to report on a demand zone where that relevant entity doesn't have any customers, facilities, or sites in that demand zone.
- A Part 27 relevant entity is required to report on a demand zone where that relevant entity has customers, facilities, or sites in that demand zone and where there is zero gas forecast in that demand zone, a Forecast Quantity of zero must be submitted.
- Forecast Quantities and the breakdown of supply sources are estimates based on the information available to the *relevant entity*.

3.3.3 Validation rules

- Gas Date must conform to the date format YYYY-MM-DD.
- Submissions must only contain Facility Ids registered to the *BB reporting entity*.
- Negative Quantity values are not accepted.
- The sum of PurchasesGSA, PurchasesGSH, PurchasesMktSameZone and PurchasesMktDiffZone must be less than or equal to the Forecast Quantity, where this information is being submitted for the first time for a gas day. This validation does not apply to updates of data for a gas day.

3.3.4 Example submission

CSV file format

```
FacilityId, GasDate, ForeCastQuantity, DemandZoneId, PurchasesGSA, PurchasesGSH, GSHLocation, PurchasesMktSameZone, PurchasesMktDiffZone, Description
520345, 2018-09-23, 128.928, SESA-DE-01, 32.232, 32.232, Wallumbilla, 32.232, 32.232
```

JSON format

```
{
  "ItemList": [
    {
      "FacilityId": 520345,
      "GasDate": "2018-06-30T00:00:00+10:00",
      "ForecastQuantity": 128.928,
      "DemandZoneId": "SES-DE-01",
      "PurchasesGSA": 32.232,
      "PurchasesGSH": 32.232,
      "GSH_Location": "Wallumbilla",
      "PurchasesMktSameZone": 32.232,
      "PurchasesMktDiffZone": 32.232,
      "Description": "Portfolio approach applied across multiple demand zones"
    }
  ]
}
```

3.4 Linepack Forecast

Transaction name	LINEPACK_FORECAST
Purpose	Provide on each gas day D-1 for gas days D to D+6, the <i>relevant entities</i> expected beginning-of-day linepack forecast.
Submission cut-off time	10.00 pm on gas day D-1.
Rollover	No rollover.

Required by	<i>BB reporting entity for BB pipelines.</i>
Exemptions	
Notes	This is a Part 27 submission only.

3.4.1 Data elements and fields

Data	Data Field Name	Description	Mandatory	Data Type	Example/ Allowed Values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
Gas Date	GasDate	Date of gas day. Any time component supplied will be ignored. The gas day is that applicable under the pipeline contract or market rules.	Yes	Datetime	2018-09-23
Linepack Zone Id	LinepackZoneId	A unique AEMO defined linepack zone identifier.	Conditional. This field is required where LinepackType is Operational, GreenBound, AmberBound or RedBound. If the LinePackType is "Contracted,, then LinesPackZoneId = Null	Varchar(20)	SESA-LP-01
Linepack Type	LinePackType	Linepack type for a BB pipeline categorised as operational, contracted, redbound, amberbound, or greenbound.	Yes	Varchar(20) Case insensitive	Contract; Operational; GreenBound; AmberBound; RedBound.
Forecast Quantity	ForecastQuantity	The forecast quantity of gas corresponding to the LinepackType. Value in TJ to three decimal places. Three decimal places is not required.	Yes	number(18,3)	32.232 25.2 (if quantity is 25.200)
Description	Description	Description to provide context to changing boundary values, material changes, etc,	No	Varchar(1000)	The change in boundary values is due to seasonal influences.

3.4.2 Requirements

- The Green, Amber and Red Linepack Bounds are the Pipeline Operators estimated values of those quantities for the specified Linepack Zone.
- The green bound is the estimated quantity of gas representing the upper physical limit of linepack that can be held within the operating envelope of the linepack zone.
- The amber bound is the estimated quantity of gas representing the upper physical limit of linepack within a linepack zone below which linepack cannot be relied upon to support demand on a BB pipeline.
- The red bound is the estimated quantity of gas representing the upper physical limit of linepack within a linepack zone below which linepack is insufficient to maintain minimum contracted delivery pressures and deliverability rates or as required for system security on a BB pipeline.
- The operational linepack is the estimated total quantity of gas held within the linepack zone.
- The contracted linepack is the forecast quantity of firm contracted gas available and stored as linepack within the BB pipeline.
- Where the value for the Green, Amber or Red Linepack Bound has not changed from the previous days value, the same number should be submitted for subsequent days.
- The Contracted Linepack is capacity that is available, and stored, on the pipeline that can be nominated by Shippers under firm contracts such as storage agreements; park and loan agreements; and gas transportation agreements.

3.4.3 Validation rules

- Gas Date must conform to the date format YYYY-MM-DD.
- Submissions must only contain Facility Ids registered to the *BB reporting entity*.
- Negative Quantity values are not accepted.
- LinepackZoneID must be null where LinepackType is contracted.

3.4.4 Example submission

CSV file format

```
FacilityId, GasDate, LinepackZoneId, LinepackType, ForecastQuantity, Description  
  
520345, 2018-09-23, SESA_LP-01, Operational, 32.232, The change in boundary values is  
due to seasonal influences
```

JSON format

```
{  
  "ItemList": [  
    {  
      "FacilityId": "520345",  
      "GasDate": "2018-09-23",  
      "LinepackZoneId": "SESA_LP-01",  
      "LinepackType": "Operational",  
      "ForecastQuantity": 32.232,  
      "Description": "The change in boundary values is due to seasonal influences"  
    }  
  ]  
}
```



```

{
  "FacilityId": 520345,
  "GasDate": "2018-06-22T00:00:00+10:00",
  "LinepackZoneId": "SESA-LP-01",
  "LinepackType": "Operational",
  "ForecastQuantity": 32.232,
  "Description": "The change in boundary values is due to seasonal influences"
}
]
}
    
```

3.5 Domestic Supply Forecast

Transaction name	DOMESTIC_SUPPLY_AND_EXPORT_FORECAST
Purpose	Provides on the last gas day of each month M-1, information about domestic supply for months M to M+5.
Submission cut-off time	10.00 pm on the last gas day of each month.
Rollover	No rollover.
Required by	<i>Responsible reporting entity for LNG export projects.</i>
Exemptions	
Notes	This is a Part 27 submission only.

3.5.1 Data elements and fields

Data	Data Field Name	Description	Mandatory	Data Type	Example/ Allowed Values
Facility Id	FacilityId	A unique AEMO defined Facility identifier corresponding to the Bulletin Board LNG export facility Id.	Yes	int	520345
Year	Year	Year that the forecast applies to.	Yes	int	2023
Month	Month	Month that the forecast applies to.	Yes	int	1
Domestic Gas	DomesticGas	The aggregate monthly quantity of gas that the LNG export project expects to supply to the domestic	Yes	number(18,3)	1032.232 1025.2 (if quantity is 1025.200)

Data	Data Field Name	Description	Mandatory	Data Type	Example/ Allowed Values
		market for consumption in an east coast jurisdiction. Three decimal places are not required.			

3.5.2 Requirements

- The year is entered as an integer corresponding to the month of the forecast.
- The month is entered as an integer where 1 = January, 2 = February, ..., 12 = December.
- The Domestic Gas volume is what the LNG project project expects to supply to the domestic market for consumption in an east coast jurisdiction..

3.5.3 Validation rules

- Month must be between greater than equal to 1 and less than or equal to 12.
- Submissions must only contain Facility Ids registered to the *BB reporting entity*.
- Negative Quantity values are not accepted.
- Year must be current year or next year.

3.5.4 Example submission

CSV file format

```
FacilityId,Year,Month,DomesticGas
```

```
520345,2023,1,1032.232
```

JSON format

```
{
  "ItemList": [
    {
      "FacilityId": 520345,
      "Year": 2023
      "Month": 1
      "DomesticGas": 1032.232
    }
  ]
}
```

```

    }
]
}
    
```

3.6 Export Forecast

Transaction name	EXPORT_FORECAST
Purpose	Provides on the last gas day of each month M-1, information about LNG exports for months M to M+5.
Submission cut-off time	10.00 pm on the last gas day of each month.
Rollover	No rollover.
Required by	<i>Responsible reporting entity for LNG export projects.</i>
Exemptions	
Notes	This is a Part 27 submission only.

3.6.1 Data elements and fields

Data	Data Field Name	Description	Mandatory	Data Type	Example/ Allowed Values
Facility Id	FacilityId	A unique AEMO defined Facility identifier corresponding to the Bulletin Board LNG export facility Id.	Yes	int	520345
Year	Year	Year that the forecast applies to.	Yes	int	2023
Month	Month	Month that the forecast applies to.	Yes	int	1
Export Gas	ExportGas	The aggregate monthly quantity of gas that the LNG export project expects to export, including the quantity of gas required for feed gas. Three decimal places are not required.	Yes	number(18,3)	30032.232 30025.2 (if quantity is 30025.200)

3.6.2 Requirements

- The year is entered as an integer corresponding to the month of the forecast.
- The month is entered as an integer. Examples: 1 = January, 2 = February, 12 = December.
- The Export Gas volume is the reasonable expectation of volumes to be exported.

3.6.3 Validation rules

- Month must be between greater than equal to 1 and less than or equal to 12.
- Submissions must only contain Facility Ids registered to the *BB reporting entity*.
- Negative Quantity values are not accepted.
- Year must be current year or next year.

3.6.4 Example submission

CSV file format

```
FacilityId,Year,Month,ExportGas
520345,2023,1,30025.2
```

JSON format

```
{ "ItemList": [
  {
    "FacilityId": 520345,
    "Year": 2023
    "Month": 1
    "ExportGas": 30025.2
  }
]
```

3.7 Medium Term Capacity Outlook

Transaction name	MEDIUM_TERM_CAPACITY_OUTLOOK
Purpose	Provide details of any activity expected to affect the daily capacity of a <i>BB pipeline, BB production, BB storage, BB Compression, LNG export or LNG import facility</i> in the next 24 months beyond the current short term capacity outlook.
Submission cut-off time	7.00 pm each Monday for outlooks commencing from the following Monday (Part 18 Rules). The Medium Term Capacity Outlook is also used to satisfy the requirements of the following Part 27 Rule requirements that are to be reported weekly by 7.00 pm for the outlook period: <ul style="list-style-type: none"> • recall times;

	<ul style="list-style-type: none"> • medium term maintenance demand; and extended daily capacity outlooks.
Rollover	No rollover.
Required by	<p>The <i>BB reporting entity</i> for <i>BB pipelines, BB production facilities, BB storage, BB Compression, LNG export, and LNG import facilities</i>.</p> <p>The medium term capacity outlook submission is also used for the Part 27 submissions:</p> <ul style="list-style-type: none"> • recall times for <i>BB facilities</i> other than <i>BB large user facilities</i> and <i>LNG export projects</i>; • extended daily capacity outlooks for <i>BB facilities</i> other than <i>BB large user facilities</i> and <i>LNG export project</i>; and <p>medium term maintenance demand submissions for <i>BB large user facilities</i> and <i>LNG export projects</i>.</p>
Exemptions	No Part 18 exemptions are given for this submission.
Notes	<p>Part 18 Medium Term Capacity Outlook (MTCO) is a weekly submission with one or more start and end dates and is typically only provided if there is a change of capacity materially different to nameplate rating. A subsequent submission for all or part of the date range of a previous MTCO will replace the MTCO for that <i>BB facility</i>, therefore each MTCO submission must account for the:</p> <ul style="list-style-type: none"> • Part 18 MTCO requirements; • Part 27 recall times; • Part 27 extended daily capacity outlooks; and • Part 27 medium term maintenance demand. <p>Where a <i>BB reporting entity</i> submits a Facility Id with record blank values for the remaining fields, this clears previous Medium Term Capacity Outlook submissions where the From Gas Date is on or after the current gas day (D) for the BB facility.</p>

3.7.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
From Gas Date	FromGasDate	Date of gas day. Any time component will result in submission being rejected. The gas day is applicable under the pipeline contract or market rules.	Conditional This field can be left blank if all other fields (excluding Facility Id) are also left blank. This clears all existing future dated Medium Term Capacity Outlook submissions.	datetime	2018-09-23
To Gas Date	ToGasDate	Date of gas day. Any time component will result in submission being rejected. The gas	Conditional This field can be left blank if all other fields	datetime	2018-09-23

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		day is that applicable under the pipeline contract or market rules.	(excluding Facility Id) are also left blank. This clears all existing future dated Medium Term Capacity Outlook submissions.		
Capacity Type	CapacityType	Capacity type can be either: Storage: Holding capacity in storage, or MDQ: Daily maximum firm capacity (name plate) under the expected operating conditions adjusted for any facility that is 'mothballed', decommissioned or down-rated and / or cannot be recalled within 1 week, planned maintenance excepted. Reflects any long terms changes (greater than 12 months).	Conditional This field can be left blank if all other fields (excluding Facility Id) are also left blank. This clears all existing future dated Medium Term Capacity Outlook submissions.	varchar(20)	STORAGE; MDQ
Outlook Quantity	OutlookQuantity	Capacity Outlook quantity. Value in TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	Conditional This field can be left blank if all other fields (excluding Facility Id) are also left blank. This clears all existing future dated Medium Term Capacity Outlook submissions.	number(18, 3)	200.531 190.2 (if the value is 190.200)
Flow Direction	FlowDirection	Indicates whether the capacity is for injecting into or withdrawing from a facility. Gas Flow Direction can be: Receipt: The flow of gas <u>into</u> the <i>BB storage facility</i> or <i>LNG export facility</i> Delivery: The flow of gas <u>out</u> of the <i>BB storage facility</i> or <i>LNG import facility</i> Processed: The flow direction type only used for capacities. For LNG export, it represents the amount of gas that can be processed to a liquefied state on a gas day. For LNG import, it represents the	Conditional This field is mandatory for <i>BB storage, LNG export</i> and <i>LNG import</i> facilities with a MDQ Capacity Type. Otherwise leave this blank.	varchar(20)	RECEIPT; DELIVERY; PROCESSED; DELIVERYLNGST OR

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		amount of gas that can be received and processed into storage on a gas day. Delivery LNG Storage: The flow direction type only used for capacities. For LNG import, it represents the amount of gas withdrawn for storage for processing to a gaseous state on a gas day.			
Capacity Description	CapacityDescription	Free text to describe the meaning of the capacity number provided, including a description of material factors that impact the capacity number and any other relevant information. This could be clarifying the 'name plate' or describing the limiting factor used to determine the 'name plate' capacity.	Conditional This information is mandatory for <i>BB pipeline</i> and <i>BB compression facility</i> submissions with a MDQ Capacity Type. <i>LNG export facilities</i> may also enter this information although it is not mandatory. Otherwise leave this blank.	varchar(1000)	
Receipt Location	ReceiptLocation	The Connection Point Id that best represents the receipt location. In conjunction with the Delivery location, this will indicate direction and location of the capacity.	Conditional This information is mandatory for <i>BB pipeline</i> submissions with a MDQ Capacity Type. Otherwise leave this blank.	int	1200001
Delivery Location	DeliveryLocation	The Connection Point Id that best represents the delivery location. In conjunction with the receipt location, this will indicate direction and location of the capacity.	Conditional This information is mandatory for <i>BB pipelines</i> submissions with a MDQ Capacity Type. Otherwise leave this blank.	int	1300056
Description	Description	Describe reasons or provide comments directly related to the outlook quantity and the times, dates, or duration for which those changes in quantities are expected to apply. This would be the 'outage type' and include the equipment involved. Include information	Conditional This field can be left blank if all other fields (excluding Facility Id) are also left blank.	varchar(1000)	EGP from Longford to Horsley Park, compressor outage. 2 week outage.

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		describing the location of transport routes affected for example, Eastern Gas Pipeline from Longford to Horsley Park. Where the capacity outlook affects multiple days for the same reason, these events are to be summarised as one line, with the summary applied across the impacted days. For Part 27 medium term maintenance demand submissions this includes details of the likely demand during the maintenance period.			
Recall Time	RecallTime	An estimate of how many hours notice is required, to return the facility to service, once the facility is offline.	Conditional. Only mandatory for specific facility types when there is a maintenance activity. Relates to Part 27 submissions for <i>BB reporting entities for BB facilities (excluding BB large user facilities and LNG processing facilities)</i>	int	72
Recall Description	RecallDescription	Describe reasons or provide comments directly related to the recall times including the limitations of recall, and expected capacity that would be available if the facility was recalled.	Conditional. Only mandatory for specific facility types when there is a maintenance activity. Relates to Part 27 submissions for <i>BB reporting entities for BB facilities (excluding BB large user facilities and LNG processing facilities)</i>	Varchar(1000)	Once the facility is offline, partial capacity of 20 TJ day can be restored with 24 hours notice, full capacity with 5 days notice.

3.7.2 Example (submission format)

A csv file format example is shown for BB website upload, and JSON format for HTTP API request. The JSON format example only illustrates information relating to the transaction data and does not include header file information.

Submission for a *BB pipeline* (520066).

A *BB pipeline* has a Capacity Type value “MDQ”, and Capacity Description, Receipt Location, and Delivery Location must be provided.

CSV file format

```
FacilityId,FromGasDate,ToGasDate,CapacityType,OutlookQuantity,FlowDirection,CapacityDescription,ReceiptLocation,DeliveryLocation,Description,RecallTime,RecallDescription
540066,2018-06-22,2018-06-30,MDQ,100.522,,This transmission capacity is the amount of gas that the Culcairn delivery point is able to withdraw from this pipeline facility. This capacity is dependent on the forecast DTS demand and the availability of key assets on this pipeline facility,1200001,1300004,Corrective maintenance requiring reduction of operating pressure,72,Once the facility is offline, partial capacity of 20 TJ day can be restored with 24 hours notice, full capacity with 5 days notice
540066,2018-06-22,2018-06-30,MDQ,67.801,,This transmission capacity is the amount of gas that the Culcairn delivery point is able to withdraw from this pipeline facility. This capacity is dependent on the forecast DTS demand and the availability of key assets on this pipeline facility,1200001,1300004,Reversal of previous entry, 72, Once the facility is offline, partial capacity of 20 TJ day can be restored with 24 hours notice, full capacity with 5 days notice
540066,2018-08-01,2018-08-10,MDQ,56.764,, This transmission capacity is the amount of gas that the Culcairn delivery point is able to withdraw from this pipeline facility. This capacity is dependent on the forecast DTS demand and the availability of key assets on this pipeline facility,1200001,1300004,Gas Conditioning Vessel Filter Install, 72, Once the facility is offline, partial capacity of 20 TJ day can be restored with 24 hours notice, full capacity with 5 days notice
```

JSON format

```
{
  "ItemList": [
    {
      "FromGasDate": "2018-06-22T00:00:00+10:00",
      "ToGasDate": "2018-06-30T00:00:00+10:00",
      "FacilityId": 540066,
      "CapacityType": "DQ",
      "OutlookQuantity": 100.52,
      "FlowDirection": null
    }
  ]
}
```

```

    "CapacityDescription": "This transmission capacity is the amount of gas that the
Culcairn delivery point is able to withdraw from this pipeline facility. This capacity is
dependent on the forecast DTS demand and the availability of key assets on this pipeline
facil"ty",
    "ReceiptLocation": 1200001,
    "DeliveryLocation": 1300004,
    "Description": "Corrective maintenance requiring reduction of operating pressure",
    "RecallTime": 72,
    "RecallDescription": " Once the facility is offline, partial capacity of 20 TJ day can
be restored with 24 hours notice, full capacity with 5 days noti"e "

    },
    {
    "FromGasDate": "2018-06-22T00:00:00+10"00",
    "ToGasDate": "2018-06-30T00:00:00+10"00",
    "FacilityId": 540066,
    "CapacityType": "'DQ",
    "OutlookQuantity": 67.801,
    "FlowDirection": null
    "CapacityDescription": "This transmission capacity is the amount of gas that the
Culcairn delivery point is able to withdraw from this pipeline facility. This capacity is
dependent on the forecast DTS demand and the availability of key assets on this pipeline
facil"ty",
    "ReceiptLocation": 1200001,
    "DeliveryLocation": 1300004,
    "Description": "Reversal of previous en"ry",
    "RecallTime": 72,
    "RecallDescription": " Once the facility is offline, partial capacity of 20 TJ day can
be restored with 24 hours notice, full capacity with 5 days noti"e "

    }
]
}

```

4 Markets Portal

The Markets Portal provides interfaces to submit ECGS data and generate private reports.

4.1 Markets Portal access

To access the GBB interface in Markets Portal:

- You must connect to AEMO's private data network MarketNet. Registered Participant IDs are given access to MarketNet during registration.
- Your company's Participant Administrator (PA) sets up Participant User access in the **Administration > Maintain Rights** menu in the MSATS web portal. Contact AEMO's Support Hub if you don't know who your PA is.
- The PA assigns the GBB - Gas Bulletin Board entity to the Participant User. For help, see User Administration online help.

4.2 Submitting ECGS data

Before submitting ECGS data, prepare the csv file using a text editor or third-party tool.

Note: If you open a text file with .csv extension in Microsoft Excel, the date format changes to dd-MM-YY which is incompatible with the AEMO date format specification YYYY-MM-dd

The screenshot displays the AEMO Markets Portal interface. At the top, the logo 'AEMO Markets Portal' is on the left, and user information 'Darren Chan' is on the right. Below the header, there is a navigation menu on the left with items like 'Home', 'EMMS', 'MSATS', 'Gas Supply Hub', 'Data Interchange', 'System Security', 'Forecasting and Planning', 'DERR', 'DWGM', 'Gas Bulletin Board', 'Submissions', 'Private Reports', 'Supply Forecasting', and 'Portfolio Management System'. The 'Submissions' item is highlighted with a red border. To the right of the menu, there is a 'Select submission type' dropdown menu, an 'Upload CSV' button, and a 'Submit' button.

To upload a csv file:

- In the Markets Portal, from the left menu, navigate to **Gas Bulletin Board**.
- Select the submission type from the drop-down list.
- Click **Upload CSV**.
- Click **Open** to select csv file to upload. A csv file can contain multiple records but only the file's <TRANSACTIONNAME> component in the file that correlates to the transaction type selected is submitted. The selected file name is displayed under the **Upload CSV** button.
- Click **Submit** to upload the csv. If the file upload is successful, a confirmation message is displayed.

4.3 Private Reports

The Private Reports interface displays private data for a facility from a selected gas date. You can export this data in csv format.

The screenshot shows the AEMO Markets Portal interface. On the left is a sidebar menu with the following items: Home, EMMS (+), MSATS (+), Gas Supply Hub (+), Data Interchange (+), System Security (+), Forecasting and Planning (+), DERR (+), DWGM (+), Gas Bulletin Board (-), Submissions, Private Reports, and Supply Forecasting (+). On the right, a 'Select Report' dropdown menu is open, listing the following options: Capacity Transaction, LNG Shipments, LNG Transactions, Nominations and Forecasts, Short Term Transaction, Storage Capacity, and 2D Contributions.

Note: Private reports for [Part 27](#) submissions are not available through the Reports API.

To view and export private data:

1. In the Markets Portal, from the left menu, navigate to **Gas Bulletin Board > Private Reports**.
2. In the **Reports** drop-down list, select the data report.
3. Select the date in the date field.
4. To properly view Expected Daily Gas Demand reports:
 - For part 27 retailers, select the Demand Zone ID in the **Select Demand Zone ID** drop-down list.
 - For all other participants, select the Facility ID in the **Select Facility ID** drop-down list.

The screenshot shows the AEMO Markets Portal interface. The top navigation bar includes the AEMO logo, 'Markets Portal', 'Set as: 189', and user information 'User used for MMS Manual testing for WebPortal'. The left sidebar contains navigation options: Home, EMMS (with a dropdown for 'Expected Daily Gas Demand'), Gas Supply Hub, System Security, Forecasting and Planning, DERR, Gas Bulletin Board, Submissions, Private Reports, and Supply Forecasting. The main content area displays the 'Expected Daily Gas Demand' report configuration. It includes a 'From Gas Date' field set to '24/05/2023', 'Select Facility' and 'Select Demand Zone Id' dropdowns, and an 'Export to CSV' button. A yellow callout box provides filtering instructions: 'For part 27 retailers: Please filter by demand zone ID only. Do not filter by facility ID.' and 'For all other participants: Please filter by facility ID only. Do not filter by demand zone ID.' Arrows point from these instructions to the respective dropdowns. Below the filters is a table header with columns: VersionDateTime, Facility ID, Facility Name, Gas Date, Forecast Quantity, DemandZoneId, Purchases GSA, Purchases GSH, GSH Location, Purchases Mkt Same Zone, Purchases Mkt Diff Zone, and Description.

5. Click **Export to CSV**. The csv file downloads to your PC.

The release includes five additional private reports:

- Medium Term Capacity Outlook Report
- Linepack Forecast Report
- Domestic Supply Report
- Export Forecast Report
- Expected Daily Gas Demand Report

Private reports can also be retrieved with the [Submission API](#).

5 Submission API

The BB Submission API includes four new endpoints and one modified endpoint for ECGS data submissions:

- Expected Daily Gas Demand
- Linepack Forecast
- Domestic Supply Forecast
- Export Forecast
- Medium Term Capacity Outlook (modified)

See [Gas Bulletin Board Data Submission](#) for submission data details.

The following table lists the new and modified submission endpoints.

Table 1 ECGS Submission API endpoints

Transaction Type	Pre-production URL	Production URL
Expected Daily Gas Demand	https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/ExpectedDailyGasDemand	https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/ExpectedDailyGasDemand
Linepack Forecast	https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/LinepackForecast	https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/LinepackForecast
Domestic Supply Forecast	https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/DomesticSupplyForecast	https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/DomesticSupplyForecast
Export Forecast	https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/ExportForecast	https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/ExportForecast
Medium Term Capacity Outlook	https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/MediumTermCapacityOutlook	https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/MediumTermCapacityOutlook

To view Submission API specification and download the Postman collection, see [Submission - AEMO APIs](#).

For access to the API, see [System requirements \(aemo.com.au\)](#) in Markets Portal Help.

5.1 Submission API enhancement

The GBB Submission API includes five additional endpoints to retrieve private reports.

Table 2 Private report endpoints

Report	Pre-production URL	Production URL
--------	--------------------	----------------

Medium Term Capacity Outlook report	https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/MediumTermCapacityOutlookReport	https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/MediumTermCapacityOutlookReport
Linepack Forecast report	https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/LinepackForecastReport	https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/LinepackForecastReport
Domestic Supply Forecast report	https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/DomesticSupplyReport	https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/DomesticSupplyReport
Export Forecast Report	https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/ExportForecastReport	https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/ExportForecastReport
Expected Daily Gas Demand report	https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/ExpectedDailyGasDemandReport	https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/ExpectedDailyGasDemandReport

Private reports are also accessed in the Markets Portal. See [Private Reports](#).

6 Implementation

6.1 Transition

There is no transition required for this release.

6.2 Implications

To maintain systems in-line with AEMO's market systems, participants need to:

- Review and assess the impact on their market systems with respect to the changes implemented as part of this Release.
- Change their systems prior to the implementation of this Release.
- Schedule staff and resources to upgrade their market systems for the production implementation of this Release.

A1. Version history

1.02

- Update pre-production implementation dates.

1.01

- Amend the Linepack Forecast API endpoint URL.

1.00

- Add filtering information for Expected Daily Gas Demand private report.

0.1

- Revise release dates.
- Add description field to Expected Daily Gas Demand.
- Add description field to LinePack Forecasts.
- Revise data elements to LinePack Forecasts.
- Additional information about Medium Term Capacity Outlook.
- Additional information about GBB interfaces in the Markets Portal.
- Update Submission API information.

0.01

- Initial version provides a ECGS Tranche1 release timeline and information about data submission types.