

Gas Bulletin Board (GBB) Participant Submission Obligations

Presented to WA Gas Consultative Forum
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Disclaimer

This material provides general information about the operation of the WA Gas Bulletin Board (GBB (WA)).

The definitions of each submission type are for training purposes only and may not reflect the Glossary of the GSI Rules.

AEMO has taken all due care in preparing this material, but accepts no liability for any errors it may contain. To fully understand their obligations, participants should refer to the relevant GSI Rule, Procedures and technical documentation.

Market Trial environment is available for test submissions - <https://gbbwa-trial.aemo.com.au/#home>

Background

- Gas Market Participants are required to provide AEMO with information in accordance with GSI Rules (Part 3).
- In the September GAB, AEMO was requested to present a refresher on GSI Rule:
 - Capacity reporting requirements; and,
 - Participant submission obligations.
- The submission obligations (see right) depend on Participant type, type of Facility Operated and other factors.

Nameplate Capacity

Medium Term
Capacity Outlook

Capacity Outlook

Linepack Capacity
Adequacy Outlook

Nominated and
Forecast Flow

Daily Actual Flow

Daily Actual
Consumption

Gas Specification
Data

Aggregated Shipper
Delivery Quantities

Relevant Resources

Each of the following documents provide some level of guidance on the submission requirements for the GBB WA:

GSI Act 2012

GSI Supply Act (Gas Quality Specifications) Act 2009

GSI Regulations 2012

Gas Supply (Gas Quality Specifications) Regulations 2010

GSI Rules (2021)

GSI Procedure: Operation of the GBB
and EMF (2015)

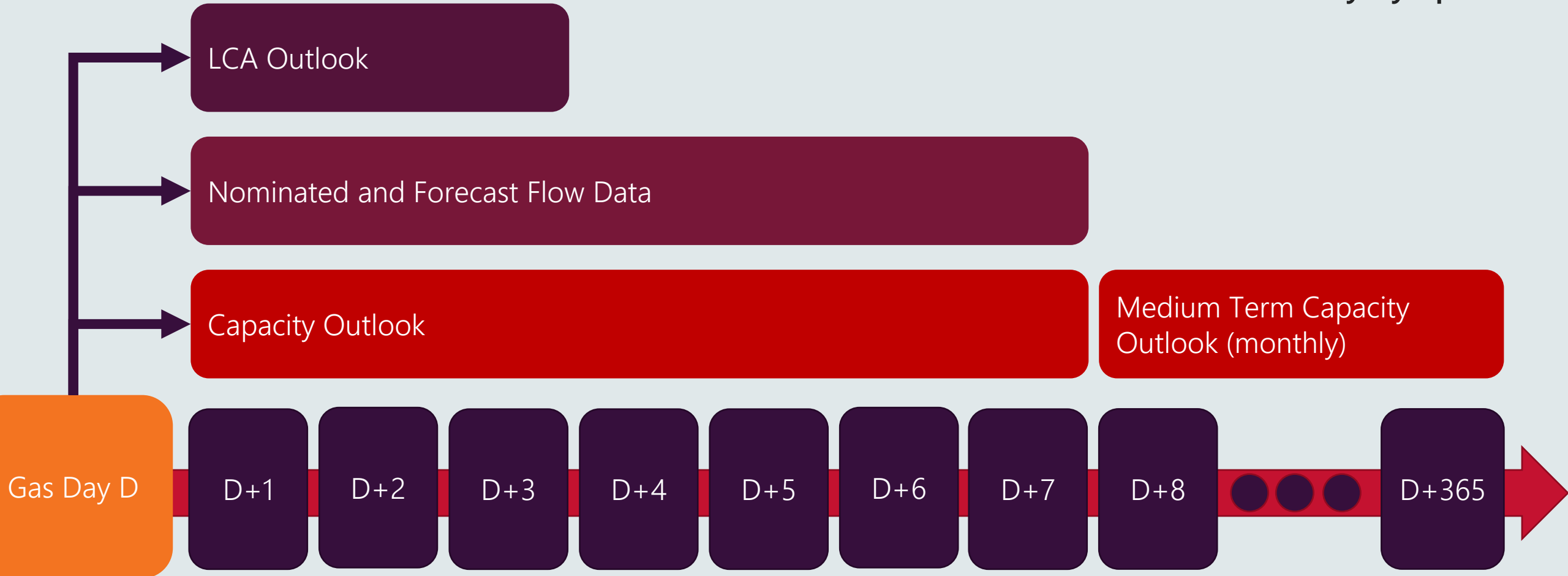
GSI Procedure: Registration,
Deregistration, Exemptions and
Transfer (2015)

GSI Design Summary
(2015)

Submission Timeline Summary

Daily ex-ante submission timeline

Submit daily by 6pm



Daily ex-post submission timeline

Submit daily by 2pm



Submissions

Nameplate Capacity



The maximum quantity of natural gas that, under normal operating conditions, can be delivered/injected/withdrawn on a Gas Day [GSI Rules Glossary]



When: Must be submitted by 31st March each year.



Contains: Nameplate Capacity per Facility (TJ of natural gas per Gas Day)



Update: ASAP for any material change that is likely to have an impact for more than one year. Material means >10% change in Capacity.

Nameplate Capacities

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| Type | Facility | Gate Station | Effective From | Nameplate Capacity (TJ/day) | Storage Production Capacity (TJ/day) | Storage Refill Capacity (TJ/day) | Storage Nameplate Capacity (TJ) |
|------------|-----------------|--------------|----------------|-----------------------------|--------------------------------------|----------------------------------|---------------------------------|
| Large User | Alcoa Kwinana | | 17/03/2021 | 75 | | | |
| Large User | Alcoa Pinjarra | | 17/03/2021 | 120 | | | |
| Large User | Alcoa Wagerup | | 17/03/2021 | 80 | | | |
| Production | Beharra Springs | | 17/11/2020 | 18.5 | | | |

- ✓ Registered Pipeline Operators [55]
- ✓ Registered Storage Facility Operators [63]
- ✓ Registered Production Facility Operators [70]
- ✓ Registered Large Users [77]
- ✗ Gas Shippers

Medium Term Capacity Outlook



Planned Service Notifications for all planned work which the operator reasonably expects to have material impact on the capacity of the Facility during the next 12 months [GSI Rules Glossary].



When: Must be submitted by 6pm on last day of each calendar month for the next 12 months.



Contains: Facility, dates of capacity change, expected capacity, short description.



Update: ASAP for any material change for any Gas Day not yet covered by Capacity Outlook. Material means >10% and >10TJ/day change in Capacity.

Medium Term Capacity

Medium Term Capacity Outlook from Gas Day 29/09/2021, as at 29/09/2021 15:40:17 [GSI Rule 85(c)]. [Medium Term Capacity](#) provided under the transitional arrangements may also be available.

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| Facility | Duration | Capacity Type | Description | Capacity |
|-------------------------|-------------------------|---------------|--------------------------------------|----------|
| Dongara | 01/09/2021 - 30/09/2021 | Nameplate | "None" | 0.0 |
| Goldfields Gas Pipeline | 28/10/2021 | Nameplate | Planned Maintenance at Paraburdoo CS | 186.0 |
| Goldfields Gas Pipeline | 29/10/2021 | Nameplate | Planned Maintenance at Paraburdoo CS | 187.0 |

- ✓ Registered Pipeline Operators [56]
- ✓ Registered Storage Facility Operators [64]
- ✓ Registered Production Facility Operators [71]
- ✗ Registered Large Users
- ✗ Gas Shippers

Capacity Outlook



The estimated quantity of gas that can be transported/delivered/withdrawn/received/injected based on knowledge of the Facility's capability and availability [GSI Rules Glossary].



When: By 6pm each Gas Day D. If the Capacity Outlook for previous submitted Gas Days have not changed and Capacity Outlook for D+7 is the same as D+6, the Participant need not submit.



Contains: Facility Capacity for next 7 Gas Days (D+1 to D+7 inclusive).



Update: By 9am or 1pm for any change for any Gas Day not yet ended.

Capacity Outlook

Seven-day Capacity Outlook from Gas Day 30/09/2021, as at 29/09/2021 15:38:58 (GSI Rule 85(a))

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| Facility | Gate Station | Type | 30/09 | 01/10 | 02/10 | 03/10 | 04/10 | 05/10 | 06/10 |
|---|--------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|
| Beharra Springs | | Production Capacity | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 |
| Dampier to Bunbury Natural Gas Pipeline | Barter Road | Gate Station Capacity | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 |

- ✓ Registered Pipeline Operators [57]
- ✓ Registered Storage Facility Operators [65]
- ✓ Registered Production Facility Operators [72]
- ✗ Registered Large Users
- ✗ Gas Shippers

Linepack Capacity Adequacy (LCA) Outlook



Pipeline: The actual or expected capability of the pipeline to meet the required delivery nominations [GSI Rule 58].



Storage Facility: The best estimate of the number of days for which supply of natural gas can be maintained at maximum operational outlet capacity (allowing for forecast refilling) [GSI Rule 66].



When: By 6pm each Gas Day D. If the LCA Outlook for previously submitted Gas Days have not changed and LCA Outlook for D+3 is the same as D+2, the Participant need not submit.



Contains: LCA Flag (🚩) per Facility per Zone for the next 3 Gas Days (D+1 to D+3 inclusive).



Update: ASAP for any change for any Gas Day not yet ended.

Linepack Capacity Adequacy

Linepack Capacity Adequacy from Gas Day 29/09/2021, as at 29/09/2021 12:38:29 (GSI Rule 85(b))

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| Facility | Zone | 29/09 | 30/09 | 01/10 |
|---|------------|-------|-------|-------|
| Dampier to Bunbury Natural Gas Pipeline | Dampier | GREEN | GREEN | GREEN |
| Dampier to Bunbury Natural Gas Pipeline | Metro | GREEN | GREEN | GREEN |
| Dampier to Bunbury Natural Gas Pipeline | South-West | GREEN | GREEN | GREEN |

- ✓ Registered Pipeline Operators [58]
- ✓ Registered Storage Facility Operators [66]
- ✗ Registered Production Facility Operators
- ✗ Registered Large Users
- ✗ Gas Shippers

Nominated and Forecast Flow



Aggregated quantity of gas nominated by Shippers to be withdrawn/injected on a Gas Day [GSI Rules 59,67].



When: By 6pm each Gas Day D.



Contains: Nominated and Forecast Flow per Facility per Receipt & Delivery Point for Gas Day D+1 (and Gas Days D+2 to D+7 if forecast quantities have been provided by Shippers).



Update: By 9am or 1pm for any change for any Gas Day not yet ended.

Nominated and Forecast Flow

Nominated and Forecast Flow Data from Gas Day 30/09/2021, as at 29/09/2021 16:35:00 (GSI Rule 86)

| Zone | 30/09 | | 01/10 | | 02/10 | | 03/10 | | 04/10 | | 05/10 | | 06/10 | |
|------------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|
| | Receipt | Delivery | Receipt | Delivery | Receipt | Delivery | Receipt | Delivery | Receipt | Delivery | Receipt | Delivery | Receipt | Delivery |
| Dampier | 873.3 | 424.2 | 824.3 | 349.7 | 824.3 | 347.6 | 805.3 | 341.2 | 686.1 | 244.6 | 685.1 | 247.7 | 615.1 | 253.2 |
| Goldfields | 0.0 | 107.7 | 0.0 | 72.4 | 0.0 | 70.4 | 0.0 | 63.8 | 0.0 | 62.8 | 0.0 | 65.8 | 0.0 | 71.4 |
| Kalgoorlie | 0.0 | 40.3 | 0.0 | 19.3 | 0.0 | 24.3 | 0.0 | 24.3 | 0.0 | 24.4 | 0.0 | 24.4 | 0.0 | 24.4 |

- ✓ Registered Pipeline Operators [59]
- ✓ Registered Storage Facility Operators [67]
- ✗ Registered Production Facility Operators
- ✗ Registered Large Users
- ✗ Gas Shippers

Daily Actual Flow Data



Actual flows for a given Gas Day on the basis of operational metering data where available or otherwise, where such data is not available, an estimated by the Operator [GSI Rules Glossary].




When: By 2pm each Gas Day D+2.



Contains: Actual quantity of gas flow per Facility for Gas Day D.



Update: ASAP after a Production Facilities Operator becomes aware of changes, but no later than 1 year after end of period.

 used for GSI Invoicing

Actual Flows

Daily Actual Flow Data for Gas Day 27/09/2021, as at 29/09/2021 14:00:00 (GSI Rule 87)

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| Facility | Type | Zone | Receipt | Delivery |
|--|--------------|------------|---------|----------|
| Beharra Springs | Production | | 9.6 | N/A |
| Dampier to Bunbury Natural Gas Pipeline | Pipeline | Dampier | 1,012.8 | 397.5 |
| Dampier to Bunbury Natural Gas Pipeline | Pipeline | Metro | 25.0 | 308.9 |
| Dampier to Bunbury Natural Gas Pipeline | Pipeline | South-West | N/A | 279.3 |
| Dampier to Bunbury Natural Gas Pipeline, Barter Road | Gate Station | | N/A | 0.5 |

- ✓ Registered Pipeline Operators [60]
- ✓ Registered Storage Facility Operators [68]
- ✓ Registered Production Facility Operators [73, 115A]
- ✗ Registered Large Users
- ✗ Gas Shippers

Daily Actual Consumption Data



Quantity of natural gas that is metered (based on operational metering data) as having been, or estimated by the relevant Large User to have been, used by the facility on that Gas Day [GSI Rules Glossary].



When: By 2pm each Gas Day D+2.



Contains: Actual Consumption Data per Large User Facility for Gas Day D.



Update: Never.

Large User Consumption

Large User Daily Actual Consumption Data for Gas Day 22/09/2021, as at 29/09/2021 14:00:00 (GSI Rule 88(1))

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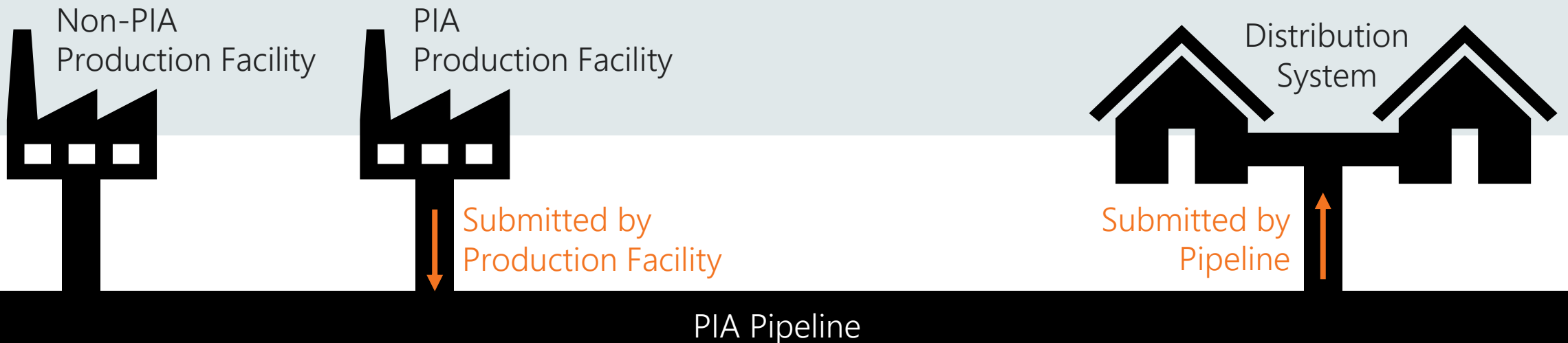
| Facility | Usage Category | Quantity (TJ) |
|-----------------------|---------------------|---------------|
| Alcoa Kwinana | Minerals Processing | 68.8 |
| Alcoa Pinjarra | Minerals Processing | 73.9 |
| Alcoa Wagerup | Minerals Processing | 65.1 |
| BP Refinery (Kwinana) | Other | 0.0 |

- ✗ Registered Pipeline Operators
- ✗ Registered Storage Facility Operators
- ✗ Registered Production Facility Operators
- ✓ Registered Large Users [78]
- ✗ Gas Shippers

Gas Specification Data

Gas Supply (Gas Quality Specifications) Act 2009 was introduced to allow for the supply of gas that doesn't meet certain quality specifications. Achieved through a Pipeline Impact Agreement (PIA) between a pipeline and gas producer.

PIA Pipeline Operators may have to submit for Delivery Points into Distribution Systems. PIA Production Facilities must submit for their Receipt Point. Non-PIA Production Facilities must submit when directed by COE.



Current PIA Facilities include DBNGP, GGP, Macedon, Pluto, and Xyris

Gas Specification Data



Average HHV of the gas (and quantity for Production Facilities) calculated from measurements taken by the Operator [GSI Rules Glossary].



When: By 2pm each Gas Day D+8.



Contains: Gas Specification Data per Facility per relevant Delivery Point including average Higher Heating Value (MJ/m³), and Quantity (m³) for Production Facilities.



Update: Never.

*and non-PIA Production Facilities when directed by the COE

Gas Specification

Gas Specification Data for Gas Day 23/09/2021, as at 29/09/2021 14:05:01 (GSI Rule 90)

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| Facility | Type | Measured Before | Higher Heating Value (MJ/m ³) | Quantity (m ³) |
|---|------------|-----------------|---|----------------------------|
| Dampier to Bunbury Natural Gas Pipeline | Pipeline | Nangetty Road | 38.2 | N/A |
| Goldfields Gas Pipeline | Pipeline | Kalgoorlie Town | 37.6 | N/A |
| Macedon | Production | | 35.6 | 75.1 |
| Pluto | Production | | 37.1 | 0.0 |
| Xyris Production Facility | Production | | 37.0 | 24,990.0 |

- ✓ Registered PIA Pipeline Operators [61]
- ✗ Registered Storage Facility Operators
- ✓ Registered PIA Production Facility Operators* [74,75]
- ✗ Registered Large Users
- ✗ Gas Shippers

Aggregated Shipper Delivery Quantities



The delivered quantities for each Shipper, aggregated for all Delivery Points on a GBB Pipeline, except for Delivery Points feeding into another GBB Pipeline or GBB Storage Facility [GSI Rules Glossary].




When: within 20 days after end of GSI Invoicing Period (quarterly).



Contains: Quantity of gas delivered per Shipper per GSI Invoice Period



Update: ASAP after Pipeline Operator becomes aware of changes, but no later than 1 year after end of period.

 used for GSI Invoicing

Shipper Deliveries

FROM 01/01/2020 TO 10/05/2021 GO

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Submissions received between 01/01/2020 00:00:00 and 10/05/2021 23:59:59.

| Submitted At | Quarter | Pipeline Operator | Pipeline | Shipper | Quantity (TJ) |
|--------------|---------|-------------------|----------|---------|---------------|
|--------------|---------|-------------------|----------|---------|---------------|

- ✓ Registered Pipeline Operators [115]
- ✗ Registered Storage Facility Operators
- ✗ Registered Production Facility Operators
- ✗ Registered Large Users
- ✗ Gas Shippers

Exemptions

If a Facility is the only supplier of gas at the Receipt Point it is connected to, or the only recipient of gas at the Delivery Points it's connected to...

Then the Facility Operator may apply for an exemption from submission of:

- Nominated and Forecast Flow Data (Storage Facility Operators)
- Daily Actual Flow Data (Storage and Production Facility Operators)
- Daily Actual Consumption Data (Large User Facility Operators)

Exempt Facilities

SEARCH

X

+ REGISTER EXEMPT FACILITY

| Facility | Type | Operator | Operator Code | Exemption From | Exemption To |
|----------|------|----------|---------------|----------------|--------------|
|----------|------|----------|---------------|----------------|--------------|

- X Registered Pipeline Operators
- ✓ Registered Storage Facility Operators [67, 68]
- ✓ Registered Production Facility Operators [73]
- ✓ Registered Large Users [78]
- X Gas Shippers



Questions

Market Operations (WA)

wa.operations@aemo.com.au

Appendix

Summary in GSI Procedure

| Report name | Description | Timeframes |
|------------------------------------|---|---|
| Capacity Outlook** | The 7 day Capacity Outlook for all GBB (WA) Pipelines, GBB (WA) Storage Facilities and GBB (WA) Production Facilities from Gas Day D to Gas Day D+6 inclusive. [subrule 85(a)] | Initial Report: Daily between 6:00 AM on Gas Day D-1 and the start of Gas Day D. Update: As soon as possible following the receipt of updated data. |
| Linepack Capacity Adequacy Outlook | The LCA Flag for each GBB (WA) Pipelines or parts of a GBB (WA) Pipeline in a Zone and each GBB (WA) Storage Facility for Gas Day D to D+2 inclusive. [subrule 85(b)] | Initial Report: Daily between 6:00 AM on Gas Day D-1 and the start of Gas Day D. Update: As soon as possible following the receipt of updated data. |
| Nominated and Forecast Flow Data** | <u>For each Zone and each GBB (WA) Storage Facility:</u> The aggregated quantity of gas nominated for all Receipt Points Day D and forecast for each of Gas Day D+1 to D+6 inclusive. The aggregated quantity of gas nominated and for all Delivery Points for Gas Day D and forecasts for each of Gas Day D+1 to D+6 inclusive. Zones [subrule 86(1)(a) and (b)] Storage Facilities [subrule 86(1)(c)] | Initial Report: Daily between 6:00 AM on Gas Day D-1 and the start of Gas Day D. Update: As soon as possible following the receipt of updated data. |

| Report name | Description | Timeframes |
|------------------------------------|---|--|
| Actual Flows | <u>For each Zone [subrules 87(1)(a) and (b)]</u> The actual flow of gas aggregated for all Receipt Points and aggregated for all Delivery Points for each Gas Day D. <u>For each Gate Station [subrule 87(1)(c)]</u> The aggregated actual flow of gas each Gas Day D. <u>For each GBB (WA) Storage Facility [subrule 87(1)(d)]</u> The actual gas flow into the storage and out of the storage facility for each Gas Day D. <u>For each GBB (WA) Production Facility [subrule 87(1)(e)]</u> The actual gas out of the production facility for each Gas Day D. | Report: Daily between 2:00 PM and 6:00 PM on Gas Day D+2. Update: As soon as possible following the receipt of updated data for a GBB (WA) Production Facility. |
| Daily Consumption by Zone | Aggregate (by Zone) actual gas consumption of Large User Facilities for each Gas Day D. [subrule 89(1)(a)] Aggregate (by Zone) actual gas quantity injected into the Distribution System (excluding Large User Facilities) for every Zone for each Gas Day D. [subrule 89(1)(b)] Aggregate (by Zone) actual gas consumption excluding Large User Facilities and Distribution System for every Zone for each Gas Day D. [subrule 89(1)(c)] | Report: Daily between 2:00 PM and 6:00 PM on Gas Day D+2. |
| Large User Consumption Information | Actual gas consumption for each Large User Facility for every Gas Day D. [subrule 88(3)] Actual gas consumption, aggregated by Zone and Consumption Category for each Gas Day D. [subrule 88(1)] | Report: Daily between 2:00 PM and 6:00 PM on Gas Day D+7. |
| Gas Specification Data | Gas Specification Data for PIA Pipelines and PIA Production Facilities (and Non-PIA Gas Production Facilities which are obliged to submit Gas Specification Data) for every Gas Day D. [rule 90] | Report: Daily between 2:00 PM and 6:00 PM on Gas Day D+8. |
| Medium Term Capacity Outlook** | Planned Service Notifications (or maintenance reports) for all upcoming capacity constraints of all Registered Facilities during the next 12 calendar months (M to M+11 inclusive). [subrule 85(c)] | Initial Report: Monthly between 6:00 AM and 8:00 AM on the first day of each calendar Month M. Update: As soon as practicable where an update is submitted. |