

Gas Market Monitoring – GWCF Update

Thursday 18 June 2020

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Proposed STTM Consultations

STTM Consultations

AEMO plan to consult on the following Procedures and Methodologies over the next 12 months:

1. STTM Procedures – market event reporting requirements in addition to those specified in the Rules.
2. STTM Interface Protocol – to update the artefacts including STTM MIS Report Specification.
3. MOS Estimates Methodology

Following the GWCF, AEMO will circulate a feedback form to collect the responses. Minor editorial amendments and other issues raised by participants through the GWCF may be considered as part of these Procedure consultation.

STTM Event Reports

- Section 7.6 of the STTM Procedure requires AEMO to prepare a report when data is not provided in accordance with rule 414 or 419
 - NGR 414 specifies that if the capacity information is not provided or fails validation, AEMO must use substitute information.
 - NGR 419 specifies the process for receiving facility allocation information.
- This requirement to prepare a report appears to be unnecessary, as there is the ability for AEMO to use substitute information including the ability for the submission window to be extended to accept substitute information.
- Around 10 Reports have been prepared since 2014
- NGR 497 also specifies the reviewable events that AEMO should report on. These are:
 - an administered price cap state, administered ex post pricing state, market administered scheduling state or market administered settlement state, or a series of such states that relate to the same underlying event or circumstances; or
 - contingency gas trigger event in respect of which AEMO publishes a notice under rule 441 and (if applicable) the scheduling and provision of contingency gas in relation to that contingency gas trigger event.
- Questions for the GWCF –
 - Is there a need/value in reporting as per 7.6 of the procedure?
 - Is there something else that would be more relevant to be reported on or is the requirements of NGR 497 sufficient?

Ex Ante Pipeline Data

- **Section 3.4 of the STTM Market Procedure** specifies the time that AEMO must publish the following
 - the default gas day capacity;
 - the maximum gas day capacity; and
 - the validation thresholds to be applied under clause 7.1.3A.
- As the STTM Reports Specification gives the time and the detail around this report (INT653), the STTM Procedures do not need to have the time, only that this information must be published as per the STTM Reports Specification. INT653 is covered in 5.1.12 of the STTM Reports Specification (Ex Ante Pipeline Data)
- The time trigger in the STTM Reports Specification should be reverted back to be 9am and 10.30am (consistent with what was in place prior to Gas Day Harmonisation)
- Question for the GWCF –
 - Are there any objections to the proposed changes to the Procedure 3.4 and the Report specification 5.1.12?

MOS Estimates

- NGR 397 requires AEMO to publishes MOS estimates
- **Section 5.2(h)** of the STTM Market Procedure specifies that AEMO must consult on changes to the methodology. AEMO considers that this should be updated to be that AEMO may consult on changes, as there may be minor changes that should be included without conducting a consultation.
- The MOS Estimates Methodology describes a process that results in a detailed report being produced each quarter, of this only 10 numbers per MOS Period (i.e. 30 numbers per quarterly report) are used by market systems. The methodology is to be reviewed to ensure it meets the rule and procedure requirements without creating unnecessary obligations.
- The MOS estimates are used to determine the price of MOS Overrun, such that:
 - if the total MOS stack quantity for pipe and flow direction is less than the MOS Estimate for the MOS period, then MOS overrun is priced at the quantity weighted average price per GJ allocated.
 - if the total MOS stack quantity for pipe and flow direction is more than the MOS Estimate for the MOS period, then MOS overrun is priced at the highest priced MOS step allocated for the MOS stack on that day in that direction of MOS usage.
- Question for the GWCF –
 - Is it necessary to consult on changes to the methodology for determining MOS estimates?
 - Do participants object to removing obligations that are not required by the NGR and STTM Procedures?

Ex Ante Market Price Report

- **Section 5.1.10 of the STTM Report Specification** specifies the requirements for INT651 Ex Ante Market Price
 - For this report the schedule_identifier must be Not Null
 - In the case that AEMO is not able to create a schedule (as was the case on 31 December 2018) the schedule_identifier should be Null
 - AEMO proposes to updated the specification to change the schedule_identifier column may be Null, and to update the comment field
 - An additional comment needs to be added to the comment section of the administered_price_period to explain that where the administered state is "Y" then the schedule_identifier will be Null.
- Question for the GWCF –
 - Are there any concerns with the proposed changes to the STTM Report Specification 5.1.10?
 - Are there any other areas of the Market Procedure or STTM Reports Specification that need to be reviewed if AEMO was to run a consultation?

INT724 – Ranked Deviation Report

- AEMO notes that all Trading Participant have opted to received the INT724 ranked deviation report when specifically asked if they want this report.
- AEMO proposes to alter the current MIS report specification to state that participants must opt out if they do not want to received the report as it simplifies the market registration process for new Trading Participants.
- Question for the GWCF –
 - Are there any concerns with the proposed changes to the STTM Report Specification 5.1.71 for the INT724 Ranked Deviation Quantities Report?
 - Alternatively, should this report be provisioned to all STTM Trading Participants?

Gas Bulletin Board updates completed

As previously communicated through the GWCF – the full release list

BB Update

- Subscriptions
- BB Release consolidated list – cover off key points
 - Information regarding aggregated data
 - New compliance reports
 - Data issues
 - Descoped items

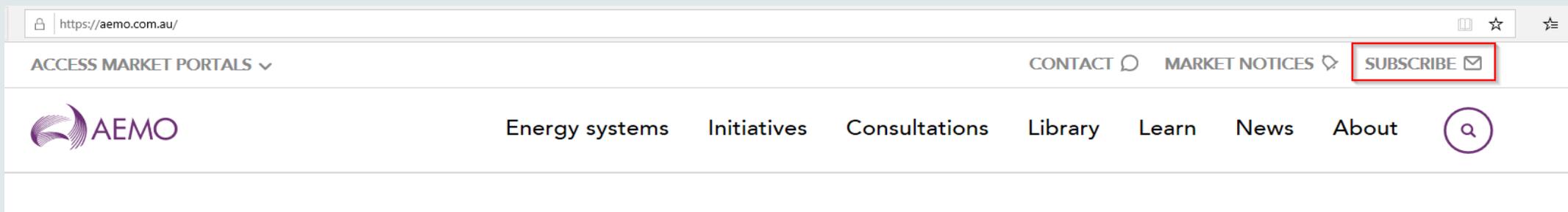
Subscriptions

- Participants often request how to be notified when there is an update to the AEMO website such as
 - LNG Maintenance notice for the Curtis Island facilities
 - New Event Reports for STTM or DWGM
 - Updated Shipper Lists
- Anyone can subscribe to the website notifications
 - Click Subscribe from the main AEMO page
 - Fill in your details
 - Select the updates you want to be notified of
 - Click the disclaimer
 - Confirm you are not a robot!

Gas updates

Gas updates

- GBB Allocation Register
- GBB Notices
- GBB Shipper List Updates
- LNG Maintenance Updates
- GBB reports
- DWGM reports and notices
- Retail gas market compliance reports
- STTM reports and notices



BB Release

Heading	Description
Performance of the Bulletin Board	Improvements to the performance to allow a greater amount of data to be extracted
Creation of NEMWeb report for Pipeline connection Flow	As the pipeline connection flow is limited to one month's data, historical information is available from NEMWeb. The link is on the pipeline connection flow report within the GBB - http://nemweb.com.au/Reports/Current/GBB/GBB_PIPELINE_CONNECTION_FLOW/
Validation for flow submissions	<p>The Low Range and the High Range fields have been removed from the Facilities Report. These fields became redundant as at 30 September 2018 when AEMO no longer received aggregated pipeline information.</p> <p>A configurable parameter has been implemented to validate submissions (actual flows and nominations/forecasts), this has been set up as follows</p> <ul style="list-style-type: none">• A soft warning will appear for submitting higher than capacity• Another soft warning will appear for submitting higher than capacity multiplied by 1.3 (1.3 being configurable)• Hard validation of 2 (configurable) times the capacity will be rejected – AEMO will now implement this hard validation. <p>Further detail</p> <ul style="list-style-type: none">• Pipeline validations are against the individual connection point nameplate capacities and flows• Production and compression validations will be against the MDQ capacity, as submitted in the short term capacity outlook• Storage is validated against the MDQ capacity for Receipt and Delivery, and Storage capacity for the held in storage volume, as submitted in the short term capacity outlook• In the case that a zero capacity has been entered in the short term capacity outlook, but the facility returns to service early and gas does flow, the capacity outlook can be updated retrospectively – currently set to 7 days in the past.• If flows are received on both deliveries and receipts they are netted to conduct validation <p>Pipeline must include connection points in their submissions, other facilities must submit aggregated data with the connection point field left blank.</p>

BB Release

Heading	Description
Validation of nomination submission	Participant can submit nominations and forecasts for the current gas day before the gas-day-start-time of the next gas day i.e. submissions can be updated until 6 am
Validation of secondary capacity trades submission	The PriceStructure field is an optional field when submitting for a secondary capacity trading file for the BB Capacity Transaction submission type – this had previously been set as mandatory
Report refresh	The Reports display triggered a reload whenever the selection was changed, the user will now be forced to press the Go button in order to run the report
Exempt facilities	Defects in the data exemption process have been rectified. The exemptions have some further enhancements that will be prioritised with other work. One element is a recommendation that facilities no longer use “N/A” for flow direction when submitting a zero value (AEMO will put this forward as a change in the next submission consultation and to validate the flow direction against the standing data)
Connection Points with zero flow	In the Pipeline Connection Flow Report, the ConnectionPointName field no longer displays blank for connection points that have ActualQuantity equal to 0 and flow direction of N/A. The name will be as per the corresponding connection point ID
Downloadable reports from the maps tabs	Each of the tables on the Map now have an export button that will allow the user to download the data for a date range
Enhancements to the map	<ul style="list-style-type: none">• Northern Gas Pipeline has been added to the map and to the Pipeline table.• Map pipelines will now change colour based on the LCA flag (Red, Yellow, Green)• Map legends have been added to the bottom left corner of the map, which can be toggled on and off• Production table has been updated to include more facilities and sorted by location, by alphabetical order• Pipeline table has been sorted first by location, and then by alphabetical order of facility name

BB Release

Heading	Description
Daylight savings display - medium term capacity outlook report	The Medium Term Capacity Outlook would display different dates if viewed from a browser where daylight savings doesn't occur (e.g. QLD), this has been rectified.
Correction of aggregation action types	The aggregation calculation has been updated to better account for bi-directional production facilities and gate stations. Some cases of this will report unusually, aggregation rules to be published on the website as per upcoming slide.
Gate Station owner information	If the owner of a Gate Station is different to the owner of the connected pipeline, this information can now be updated through a change request or on registration and will be displayed on the connection point nameplate rating report
Publication of compliance reports	Compliance reports will now be published for nominations and actual flows showing missing data and late submissions (further information in upcoming slide)
Enhanced Date Range Flexibility	The following reports now have a date range <ul style="list-style-type: none">• Linepack Capacity Adequacy• Short Term Capacity Outlook• Medium Term Capacity Outlook• Connection Point Nameplate Rating• Nameplate Rating• Uncontracted Capacity Outlook
Date Picker	The style and functionality of the date picker has been improved

BB Release

Heading	Description
Rectification of Effective Dates Logic	The GBB logic has been updated to 'greater than or equal to' (from 'greater than') the effective date for any facility, so that the facility in question can be viewed and submitted against on the effective date itself, not the day after
GasBBFlowDataTransfer	More meaningful validation errors implemented
Validation on submissions	Users are now able to submit data for any future gas date: <ul style="list-style-type: none">• Linepack Capacity Adequacy• Short Term Capacity Outlook• Nominations/Forecasts
Removal of the completeness field	The completeness field will be removed from the web reports. This is a field that was intended to report on the completeness of data but was not implemented
Correction of locations	Redundant locations (from pre Sep 2018) have been removed from the Locations report
Date display	<ul style="list-style-type: none">• LastUpdated field in some cases was incorrectly returning the date 1/1/1• Markets portal has been incorrectly displaying the date
Search Functionality in the Filter	The search function is no longer case sensitive and allows for multiple facilities to filtered.

Aggregation of BB Pipeline Data

Facility Type	Pipeline Flow Direction	
	Delivery	Receipt
BB Production Facility (PROD)	Subtract from Supply*	Add to Supply
BB Pipeline (PIPE)	Add to Transfer Out	Add to Transfer In
GPG	Add to Demand	N/A
GATESTATION	Add to Demand	Subtract from Demand
BB Storage facility (STOR)	Add to Demand	Add to Supply
LARGE	Add to Demand	N/A
LNG	Add to Demand	N/A
NonBBpipeline	Add to Demand	Add to Supply
TRANSFER HEADER	Add to Transfer Out	Add to Transfer In
COMPRESSOR	Add to Transfer Out	Add to Transfer In

It is currently in scope for the next major release to provide an automated report to indicate the facility type that each pipeline connection point is connected to.

New Compliance Reports

Report Name

Description and Limitations

Missing Actual Flow and Storage	<p>This reports on any missing:</p> <ul style="list-style-type: none">• Connection point data for pipelines• Receipt or delivery data for production and storage facilities <p>The report is based on the cut-off time of 1pm</p>
Missing Nomination and Forecast	<p>The rules regarding nominations and forecasts result in some facility operators not providing this information, which makes this report difficult to use</p> <p>AEMO encourages all facility operators to submit 7 day forecasts to ensure transparency of information on the Bulletin Board.</p>
Late Actual Flow and Storage	<p>This reports on where the initial submission for a gas day is later than 1pm after the following gas day</p>
Late Nomination and Forecast	<p>This reports on where the initial submission for a gas day is later than 9pm of the day before the gas day</p> <p>The BB procedure and submission procedure have some inconsistencies in the timing of submissions between different facilities, AEMO will look to take a consistent approach to the timing of submission in the upcoming consultation that will be conducted for the Gas Market Transparency Measures</p>
Pipeline Nil Quality Submission	<p>Where no available flow data exists during the submission period due to an operational issue then a NULL Actual Quantity with a flow direction of 'N/A' and Quality of 'NIL' should be submitted. AEMO would expect that these values are then submitted when the flow data is able to be provided (which could be an estimate). This report indicates where the Nil Quality flag has been used for any facility not just a pipeline.</p>

- AEMO meets with the AER on a regular basis to discuss compliance matters, and these reports are one element of the reporting that is used to inform where there may be areas requiring further investigation.
- If participants are unsure of what is appearing in the reports, or of the obligations they can reach out to the team

Data issues being worked through

- Facilities that may incorrectly show as missing data:
 - Compression facilities are showing as missing data, changes have been initiated to resolve this
 - “Dummy points” that were set up initially to connect the compression facilities to pipelines have also been removed as these were showing up as missing data
 - Exempt data points will show as missing data in the following cases:
 - The connected facility submits using “N/A” as the flow direction
 - The connected facility does not submit data
 - For historical flows prior to the exempt data fix that was put in place
 - If the exempt connection point is not directly connected to the connection point providing the data i.e. McArthur River Pipeline delivery to the mine site.
 - Two connection points are still being investigated and Minerva will show as missing until it returns to service in the future:

Facility Name	Facility ID	Connection Point ID	Notes as at 5 June 2020
South West Queensland Pipeline	540060	1404260	Appears to be a connection to Darling Downs Pipeline
Eastern Gas Pipeline	520047	1303205	Vichub Receipt onto EGP
Minerva Gas Plant	520047		Minerva is not currently flowing gas and has been left active on the Bulletin Board in anticipation of it's return in the future

Data issues being worked through

- In some cases the data is not aggregating as expected, i.e. connection point flow data is not being aggregated into the Actual Flow report. The following connection points are being investigated:

Facility Name	Facility ID	Connection Point ID	Notes as at 5 June 2020 based on initial analysis
APLNG Pipeline	540093	1404045	Appears to be related to the connection point not belonging to a State
Queensland Gas Pipeline	540058	1404000	Appears to be related to the connection point not belonging to a State
Queensland Gas Pipeline	540058	1404006	Appears to be related to the connection point not belonging to a State
Central West Pipeline (CWP)	520054	1202058	All delivery points for CWP not included in aggregation
Central West Pipeline (CWP)	520054	1202059	All delivery points for CWP not included in aggregation
Central West Pipeline (CWP)	520054	1202060	All delivery points for CWP not included in aggregation
Central West Pipeline (CWP)	520054	1202061	All delivery points for CWP not included in aggregation
Central West Pipeline (CWP)	520054	1202062	All delivery points for CWP not included in aggregation
Mortlake Pipeline (MPL)	530061	1305071	GPG missing from Demand
Port Campbell to Adelaide Pipeline (PCA)	550052	1505088	GPG missing from Demand
South East South Australia Pipeline (SESA)	550060	1505072	GPG missing from Demand
South East South Australia Pipeline (SESA)	550060	1505073	GPG missing from Demand
Tasmania Gas Pipeline	570050	1707016	GPG missing from Demand
Tasmania Gas Pipeline	570050	1707017	GPG missing from Demand
Carpentaria Pipeline	540059	1404225	Deregistered point no longer included in aggregation – should still appear in historical aggregation
GLNG Gas Transmission Pipeline	540092	1404164	Unclear of why there is an issue
Moomba to Sydney Pipeline System	520053	1502039	Possibly due to unusual set up of this connection point
Roma - Brisbane Pipeline	540057	1404108	Unclear of why there is an issue
Victorian Transmission System	530110	Unclear	The demand in the Melbourne location has slight differences for 24 Jan to 27 Jan 2019.

BB Release – Descoped/Deferred

Heading – Removed from Scope	Description
Automation of shippers lists	The creation of a new submission type and corresponding report to automate the updating of shipper lists AEMO encourages pipeline operators to check the shipper list to ensure they are accurate
Connection point order	Including a numbering order on each pipeline so the data can be sorted by connection point to more easily calculate the flow direction
Design layout improved	Improving the user experience of the GBB
Editable text boxes	Allowing the Gas Market Monitoring Team to more easily edit text within the GBB.
Responsive for non-PC devices	Making the GBB user friendly to non-PC devices
Automated market notices	Automating the market notices to remove the need for manual upload of reports
Aggregation	Facilities that are not connected to another transmission facility e.g. NGSF, do not appear in the aggregation
Capacity reporting	Development of a new report which would display the capacity of a facility over time combining the information provided in short term capacity outlooks, medium term capacity outlooks and nameplate rating
Additional date range flexibility	For some reports it useful to see the change in information, and not just the latest information for that day e.g. nominations. Currently, only the latest information is displayed
PCT and DAA Reports	Integrating other Bulletin Boards (PCT and DAA) into the GBB Data Portal section
Short term capacity outlook	The STCO report code logic needs to be improved. For example, the lack of ability to end-date a nameplate rating results in short term capacity outlooks that are not current, in the case of PCA the delivery point location of 1505012 no longer exists resulting in an incorrect entry in the STCO report (highlighted below).

FacilityId	FacilityName	CapacityType	OutlookQuantity	ReceiptLocation	ReceiptLocationName	DeliveryLocation	DeliveryLocationName	LastUpdated
550052	Port Campbell to Adelaide Pipeline (PCA)	MDQ	249.981	1305050	UGS Receipt	1505012		2018-09-30T18:39:14
550052	Port Campbell to Adelaide Pipeline (PCA)	MDQ	215.223	1305050	UGS Receipt	1505088	Pelican Point Delivery - PS	2020-06-08T18:02:04

Gas Bulletin Board changes under review

Biennial Review and the Gas Market Transparency Measures

Gas BB under review

- Biennial Review
- Gas Market Transparency Measures
- Clarifications
 - Nameplate rating
 - Connection point data
 - Linepack adequacy flag
 - Point to point pipelines
 - Other considerations

Biennial Review

- AEMO has commenced its Biennial Review which is due to be published in September. It is expected that a draft report will be published in August, seeking feedback from stakeholders.
- The Biennial Review, in consultation with stakeholders, provides
 - a summary of AEMO's program of work to maintain the Bulletin Board over the review period and on a forward looking basis;
 - performance and usage statistics;
 - any recommendations for change; and
 - other information that AEMO considers relevant.
- AEMO has collected survey responses from industry and has also followed up with some stakeholders to gather further information.

- If there are any stakeholders that would like to provide further input into the Biennial Review, please let us know

Biennial Review – Stakeholder Themes

Survey Findings

- As previously reported to the GWCF – findings from the survey that was sent out earlier in the year
- AEMO received 45 responses
- Top 3 things that were useful were: flow data (29), the map (25), capacity outlook data (19)
- Top 3 things to improve were: the way data is summarised (26), presentation of the data (24), the map (17)
- Most useful report that is also the most downloaded is Gas Flow (Actual Flow and Storage) (39)
- Additional information that would be useful: Real time market events, such as market notices (28), Market data such as gas prices and charts (21), consolidation of existing reports (15)

Summary findings from follow up interviews

- There are different types of users of the GBB
- Many users of GBB data don't use the GBB as a website
- Users have difficulty browsing and navigating the GBB
- How data is aggregated on the GBB can be unclear to users
- Actual flow data and capacity outlook information is the most useful
- Style of the WA GBB map and interface is more user friendly
- Having a map to understand how all of the GBB facilities fit together would be useful (separate to the stylised representation of gas flows)
- Some had a lack of trust in the data

Gas Transparency Measures

- AEMO is currently working with a consultant (Reviu) and the Federal Department of Industry, Science, Energy and Resources to conduct a review of the Gas Bulletin Board, in light of the upcoming Gas Market Transparency Measures (GTM) project
- The outcomes of this work will be to
 - To recommend changes that would improve the usability and usefulness of the existing GBB application.
 - To review the changes required to the GBB for GTM and recommend how these should be integrated into the application.
 - To review the existing IT solution architecture and recommend design changes that would improve performance and usability for both providers and users of information (including GTM requirements).
 - To recommend what, if any, part of the IT solution could be more effectively delivered by an outsourced provider taking account of AEMO's data confidentiality and cybersecurity obligations.
- AEMO expects a final report in July with these recommendations
- As more certainty and clarity of the GTM Rules is provided, AEMO will then commence work on the new Bulletin Board Procedures. There are a number of existing issues that AEMO would seek to clarify when we conduct this consultation

Upcoming Changes

- There are a number of areas that require further clarification, some of these sit within the existing framework and some will be influenced by the changes that will be introduced as a result of the Gas Market Transparency Measures (GTM) Rules
- AEMO aims to implement changes in the procedures and is seeking feedback from stakeholders
- To the extent recommendations are outside of the scope of the GTM Rules, and would require further Rule changes, AEMO will consider whether these should be put forward as recommendations in the Biennial Review
- Following the GWCF, AEMO will circulate a feedback form to collect the responses

Nameplate rating

Nameplate rating is defined as the maximum daily capacity under normal operating conditions

In ensuring the most meaningful number is provided to the Bulletin Board AEMO has taken this definition to take into account limiting factors, i.e. under normal operating conditions. Two examples of this are:

1. A pipeline that has a capacity that is greater than 10 TJ/day, but the demand of all delivery points is demonstrated to show that it will always be less than 10 TJ/day. Carisbrook to Horsham Pipeline is an example of this that is not currently registered.
2. A production facility that has a capacity that is greater than 10 TJ/day, but the fields limit the amount of gas that the facility can process to a number less than 10 TJ/day. Roma North and Atlas are recent examples of this that have recently registered when the field capacity approached the point that the facilities were able to process 10 TJ/day. Katnook is another example that has a capacity of 10 TJ/day but can not achieve that level.

It is important to note that facility operators need to understand their rule obligations, and where there is the potential for ambiguity in the rules, clarification should be sought from the AER. Facility operators may be required to register those facilities that have a nameplate of 10 TJ/d (even though they may not be able to achieve this).

This same issue applies to larger facilities also, when taking into account *"any planned permanent capacity reduction or expansion due to modification of the BB facility"* where that capacity reduction might be a result of a declining field, in the case of a production facility.

AEMO also notes that a facility could manage these external factors (declining fields, demand on pipelines) through the use of short and medium term capacity outlooks, while leaving the nameplate capacity as per the facility specifications.

AEMO is seeking feedback from stakeholders to clarify this definition – **should the nameplate rating of a facility take into account other factors or should it be based only on the facility capacity?**

Connection Point Data

- Pipeline facilities are required to provide data by connection point
- Other facility types are required to provided aggregated data
 - Should all facilities be required to submit data at a connection point level or would this be an unnecessary change?
- Nominations are required to be submitted for both deliveries and receipts. **Should this continue or does it make more sense for an aggregated nomination (as either delivery or receipt) to be submitted?**
- Pipeline connection point data is aggregated from receipt and deliveries data and summed up as Demand, Supply, Transfer In or Transfer Out
 - Should the aggregation methodology be updated and changed in any way?
- Historical connection point data
 - The 2016 rules placed an obligation on AEMO to keep pipeline connection point data confidential
 - The 2018 rules made this information publicly available, AEMO
 - is exploring the potential to use the historical information to provide aggregations where possible to align to existing data
 - may seek approval from pipeline operators to release the historical data. **AEMO is interested to hear if there would be any objections to this**
- Nomination data is received by connection point for pipelines but is not published as the rules state that as far as practicable AEMO *"does not directly or indirectly disclose a nomination made by a market generating unit as defined in the National Electricity Rules."*
 - AEMO appreciates that this should apply for any nomination that occurs for a future or current day. **Should this restriction be applied to historical nomination information?**

Linepack Adequacy Flag

The Linepack Capacity Adequacy report is provided for each Pipeline for the current and next 2 gas days. The LCA flag are traffic light colours (green, amber and red) to indicate the LCA status on each pipeline. AEMO has proposed changes that will be included in the Bulletin Board Procedure consultation later this year and are included in the table below (see marked changes).

We are looking for feedback on these proposed changes, and any other changes that could be incorporated to ensure the LCA flag is a meaningful indicator, including how a facility should report when it is on outage.

(b) The LCA flag for a BB pipeline must be categorised as green, amber or red as follows:

LCA Flag	BB pipelines (other than the those within the declared transmission system)	Declared transmission system
Green	Pipeline is able to accommodate increased gas flows.	Pipeline is able to accommodate increased gas flows.
Amber	Pipeline is flowing at full capacity, but no involuntary curtailment of 'firm' load is likely or happening.	A Net Flow Transportation Constraint has been applied to the BB Pipeline that is impacting a schedule, <u>a threat to system security is issued with out of merit order gas scheduled</u> , but no involuntary curtailment of load is likely or happening.
Red	Involuntary curtailment of 'firm' load is likely or happening.	<u>'Non-firm' LNG is scheduled or</u> involuntary curtailment of load is likely or happening.

Point to Point Pipelines

- As raised in a previous GWCF there has been some debate with regards to point-to-point pipelines that connect production and storage facilities in to the broader transmission system
- AEMO has taken the view that the lateral pipeline and the production facility will be treated as one facility, i.e. the production facility.
- This will only be the case if there is a one-to-one relationship.
 - As soon as the one-to-one relationship ends, the pipeline will need to be registered.

- Should these pipelines be registered?
- Do the Rules need further clarification?

Other Considerations

- The Rules allow for participants to indicate that they want to sell, or buy, gas or pipeline capacity. What is the best way for the Bulletin Board to do this?
- Nameplate rating information must be updated annually, should the procedures explicitly allow for a rollover where there has been no change? Currently AEMO accepts an email to notify that there has been no change.
- Locations on the BB, are generally grouped into market (i.e. Adelaide, Sydney, Brisbane, DTS) or non-market (e.g. regional S.A. which captures everything outside of the Adelaide STTM). Should locations be defined in the BB in a different way, or should additional locations be included?
- AEMO intends to remove the gate station capacity submission from the procedure as it is covered by connection point capacity submission.
- Short Term Capacity Outlook – The submission procedure outlines two types of descriptions
 - Capacity Description – describing the meaning of the capacity, this description is generally not expected to change
 - Description – describing the change in capacity outlook. This was recently changed to mandatory with the view of creating a greater level of transparency of impacts on the capacity outlook. **A reminder that this has been implemented and updates to the description are expected.**

Further feedback has been received following the recent procedure consultation and AEMO is interested in any other feedback on the usefulness of these changes in anticipation of the next round of procedure consultation.

Other items

Other items

- Secondary Capacity Transactions
- Upcoming changes to the TSPR
- Recent threats to system security notices in the DWGM

Secondary Capacity Transactions

- Secondary capacity transaction, in relation to transportation capacity, means a disposal of a right by a person to use the transportation capacity but does not include the primary capacity transaction in relation to that transportation capacity
 - Transactions can be bilaterally between counterparties or conducted through the trading exchange run by AEMO
- All secondary capacity transaction must be submitted to the Gas Bulletin Board within one business day of the trade date of the transaction (not the start or end date)
- AEMO assigns the numerical transaction ID and this can then be used to make updates to this transaction
 - Note that the reporting will indicate GBB or GSH in the transaction ID to identify the source of the transaction but this isn't used when making updates, only the number is needed
- Each day of transactions will be reported where a transactions has occurred i.e. there are currently 7 files containing secondary capacity trades, some with multiple transactions and others with single transactions
 - There is a defect that has been raised where the PARK_LOAN_POINT_NAME field incorrectly populates for transactions

- Gas Bulletin Board Submission Procedure outlines the specifications of the upload file
https://www.aemo.com.au/-/media/files/gas/natural_gas_services_bulletin_board/site-content/gbb-documents/guides-and-procedures/bb-data-submission-procedures-v4.pdf?la=en
- Guide to capacity trading and day ahead auction report outlines the contents of the report
<https://www.aemo.com.au/-/media/files/gas/pipeline-capacity/2019/guide-to-capacity-trading-and-day-ahead-auction-reports.pdf?la=en>
- Current secondary capacity transaction reports are available here from within the Gas Bulletin Board
<https://www.aemo.com.au/energy-systems/gas/gas-bulletin-board-gbb/gbb-reports/pct-reports>
- Archived secondary capacity transaction reports are available here
http://nemweb.com.au/Reports/Archive/GSH/GSH_CAPACITY_TRANSACTION/

Secondary Capacity Transactions

TRANSACTION_ID	VERSION_DATETIME	TRADE_DATE	FROM_GAS_DATE	TO_GAS_DATE	TRADE_TYPE	MAX_DAILY_QUANTITY	MAX_HOURLY_QUANTITY	PRICE
GBB1000	1/07/2019 11:00	28/06/2019	7/07/2019	31/12/2019	GBB_BILATERAL_TRADE	575	24	0.26
GBB1001	15/08/2019 15:49	18/04/2019	19/04/2019	31/12/2019	GBB_BILATERAL_TRADE	3500	168	0.98
GBB1002	20/12/2019 11:10	26/09/2019	3/10/2019	31/12/2020	GBB_BILATERAL_TRADE	25000	1042	0
GBB1003	20/12/2019 11:18	20/12/2019	1/01/2020	29/02/2020	GBB_BILATERAL_TRADE	575	24	0.26
GBB1004	20/12/2019 11:18	20/12/2019	1/03/2020	31/03/2020	GBB_BILATERAL_TRADE	490	24	0.26
GBB1005	20/12/2019 11:18	20/12/2019	1/04/2020	31/12/2020	GBB_BILATERAL_TRADE	340	24	0.26
GBB1005	20/03/2020 15:58	19/03/2020	1/06/2020	31/12/2020	GBB_BILATERAL_TRADE	340	14	0.26
GBB1005	28/04/2020 17:01	27/04/2020	1/06/2020	31/12/2020	GBB_BILATERAL_TRADE	1	1	0
GBB1006	19/03/2020 15:54	19/03/2020	1/04/2020	31/05/2020	GBB_BILATERAL_TRADE	340	14	0.26
GBB1006	20/03/2020 15:56	19/03/2020	1/05/2020	31/05/2020	GBB_BILATERAL_TRADE	340	14	0.26
GBB1006	28/04/2020 17:03	27/04/2020	1/05/2020	31/05/2020	GBB_BILATERAL_TRADE	1	1	0
GBB1007	19/03/2020 15:54	19/03/2020	1/04/2020	30/04/2020	GBB_BILATERAL_TRADE	75	3	0.25
GBB1007	20/03/2020 15:56	19/03/2020	1/04/2020	30/04/2020	GBB_BILATERAL_TRADE	415	17	0.26
GBB1007	28/04/2020 17:03	27/04/2020	1/04/2020	30/04/2020	GBB_BILATERAL_TRADE	75	3	0.26
GSH22346	3/02/2020 12:49	3/02/2020	6/02/2020	6/02/2020	GSH_SCREEN_TRADE	1000		0.02

Transmission Service Point Register

- Jemena recently notified AEMO of a specification change on the Queensland Gas Pipeline (QGP), the segment between Rolleston and Wallumbilla will change to bi-directional.
- Queensland Gas Pipeline Consultation
 - Change from a single direction pipeline to a bidirectional pipeline between Rolleston and Wallumbilla
 - Change the backhaul service from Moura – Wallumbilla to Moura – Rolleston
 - Include notional points Fairview, Westgrove and Gooimbah
 - Consultation closes 14th July
- Eastern Gas Pipeline (EGP) – bidirectional flows
 - AEMO have now been notified to implement the changes to EGP that had been previously consulted on <https://aemo.com.au/-/media/Files/Gas/Pipeline-Capacity/2019/Impact--Implementation-Report-IIR--PCT-Changes-May-2019--IIR001.pdf>
 - Further communication will be sent out with regards to the system implementation date

Transmission Service Point Register

- Capacity Transfer and Auction Procedures
 - Amongst other requirements in the procedures
 - 3.1.1(c) - A facility operator must give AEMO at least 10 business days notice for a new or modified service point prior to the effective date
 - 4.2(c) If the classification of a pipeline (or part) will change from a single direction pipeline to a bidirectional pipeline the facility operator must notify AEMO of the start date and end date during which firm forward haul transportation services in both physical flow directions will be provided, and where practicable must do so no later than 20 business days before the start date.

It's important to provide as much notice as possible in order for the details to be worked through, prior to any external consultation

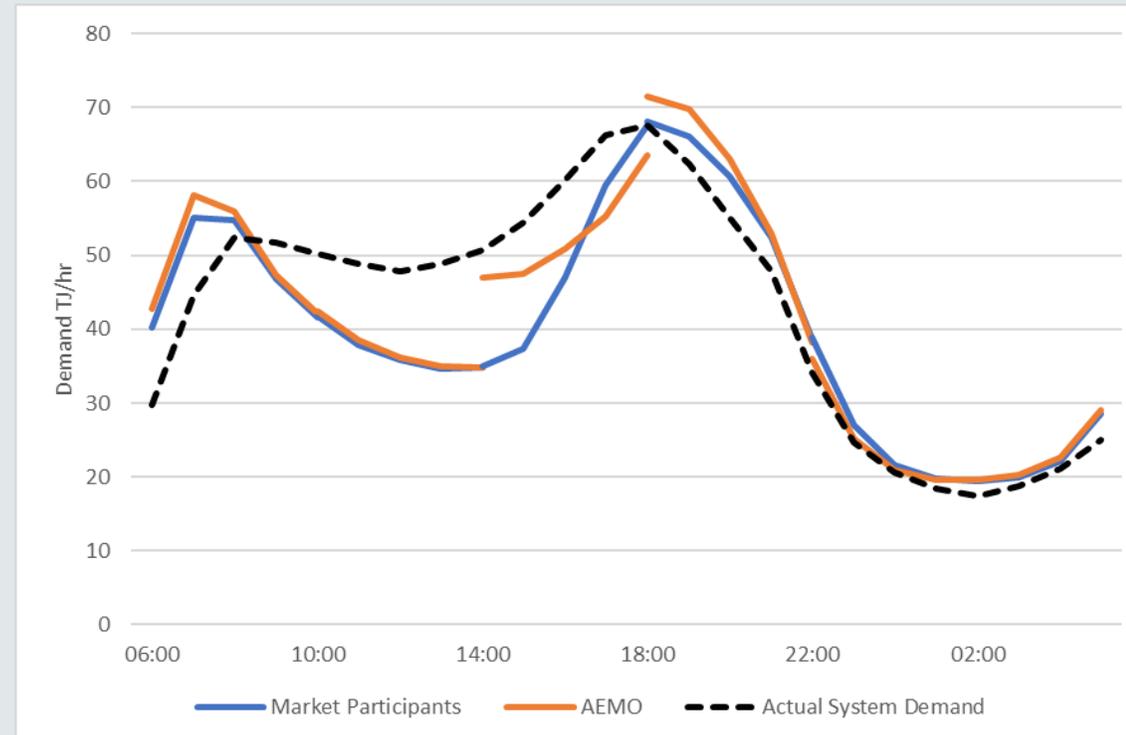
DWGM – Threats to System Security

- 12 and 13 May 2020
 - Planned maintenance work at the Brooklyn Compressor Station which limited the flow of gas on the South West Pipeline.
 - Brooklyn Compressor Station is used to maintain gas pressure on the South West Pipeline from the north, and when on outage this can lead to a localised issue that can be resolved by injecting additional gas from the Iona Close Proximity Point.
 - AEMO issued a notice of a threat to system security in the Victorian Declared Wholesale Gas Market (DWGM) for gas days 12-13 May 2020, due to the Brooklyn Compression Station outage.
 - AEMO initially scheduled 30 TJ of out-of-merit-order Iona injections for the 6.00 am schedule on 12 May 2020 which was reduced to 0 TJ by the 6.00 pm schedule. There was no material impact on the market.

DWGM – Threats to System Security

- 1 June 2020
 - Higher than forecast system demand leading to a projected breach of the minimum operating pressure at Dandenong City Gate.
 - Unplanned outages on Brooklyn Compressor Station combined with Iona withdrawals from the market
 - AEMO scheduled 34 TJ of out-of-merit-order Dandenong LNG injections for the 6.00 pm schedule on 1 June 2020
 - The impact on the market was approximately \$150,000 of additional ancillary payments, and corresponding uplift payments.

1 June 2020 Forecasts and Actuals



DWGM – Threats to System Security

- 4 June 2020
 - Ongoing issues with Brooklyn Compressor Station resulted in out-of-merit-order gas being scheduled on 3 June 2020 for gas day 4 June 2020
 - Later in the day on 3 June this out-of-merit-order gas was no longer required
 - Brooklyn Compressor unit 11 returned to service at 18.00 hrs on 3 June 2020 and the threat to system security was removed

DWGM – Threats to System Security

Follow up actions

- Review of the requirements to issue a notice of a threat in order to constrain-on gas.
- Review of the demand override methodology and market participants forecasts