

Gas Bulletin Board – Forecast Utilisation report

Report Details

Prepared by	AEMO, Gas Market Monitoring	Date	19 August 2021
Report name:	<ul style="list-style-type: none"> Forecast Utilisation 		
Purpose:	<ul style="list-style-type: none"> The purpose of the forecast utilisation report is to provide a summary of forecast information provided by Gas Bulletin Board (BB) facility operators The report is a 7-day outlook of the supply-demand gas balance in the East Coast. The report brings together data from various existing reports, including: <ul style="list-style-type: none"> Nameplate Rating Short Term Capacity Outlook Nomination and Forecast Flow Actual flow and storage 		
Update interval:	<ul style="list-style-type: none"> Daily The report is not updated once produced 		
Report period	<ul style="list-style-type: none"> Data in the report contains information for Day+1 through to Day+7 		
Facilities included	<ul style="list-style-type: none"> The following BB facility types are included in the report <ul style="list-style-type: none"> Storage Production Pipeline 		
AEMO contact	<ul style="list-style-type: none"> bbo@aemo.com.au 		

Table 1 Report data fields

Field name	Description	Data type	Example
State	Name of the state Note: the name of the state will be left blank when displaying the Description type of "Net Injections Withdrawals by Pipe"	char(3)	NSW
FacilityId	A unique AEMO defined facility identifier Note: the FacilityId will be left blank when displaying the Description type of "Net Injections Withdrawals by State"	int	520345

Field name	Description	Data type	Example
FacilityName	The name of the BB facility. Note: the FacilityId will be left blank when displaying the Description type of "Net Injections Withdrawals by State"	varchar(100)	Longford Gas Plant
FacilityType	The type of facility. Note: the FacilityId will be left blank when displaying the Description type of "Net Injections Withdrawals by State"	varchar (40)	PROD
ReceiptLocationId	The Connection Point Id that best represents the receipt location associated with a pipeline's nameplate capacity flow direction. The ReceiptLocationId in conjunction with the DeliveryLocationId indicates the capacity direction and location. Note: Applicable to BB pipelines only, otherwise this field is blank.	int	1202071
ReceiptLocationName	The Connection Point name associated with the ReceiptLocationId. Note: Applicable to BB pipelines only, otherwise this field is blank.	varchar (200)	Marsden Delivery Stream
DeliveryLocationId	The Connection Point Id that best represents the delivery location associated with a pipeline's nameplate capacity flow direction. The ReceiptLocationId in conjunction with the DeliveryLocationId indicates the capacity direction and location. Note: Applicable to BB pipelines only, otherwise this field is blank.	int	1202062
DeliveryLocationName	The Connection Point name associated with the DeliveryLocationId. Note: Applicable to BB pipelines only, otherwise this field is blank.	varchar (200)	Dubbo Delivery Stream
Description	Describes the calculation that is being performed in each row of the report Note: Further detail of each Description is provided in Table 2 .	varchar (100)	Capacity Available
ForecastMethod	Describes the calculation that is being performed for each BB pipeline where the Description is Forecast Flow. Note: Further detail of each Description is provided in Table 3 .	varchar (100)	Sum of Delivery Points
Units	The unit of measure for the calculated values.	Varchar (50)	TJ/day

Field name	Description	Data type	Example
Nameplate	Standing nameplate capacity quantity in TJ. Nameplate rating relates to maximum daily quantities under normal operating conditions. Note: Nameplate is only populated where the Description is one of: <ul style="list-style-type: none"> • Capacity Available • Forecast Flow • Storage Delivery Capacity Available • Storage Delivery Forecast Flow • Storage Level Capacity Available • Storage Receipt Capacity Available • Storage Receipt Forecast Flow 	number(18,3)	13.3
“DAY+1” e.g. Thursday 19 Aug 2021	Forecast values and calculations relating to each Description for the first day of the forecast period	number(18,3)	8.45
“DAY+2” e.g. Friday 20 Aug 2021	Forecast values and calculations relating to each Description for the second day of the forecast period	number(18,3)	128.39
“DAY+3” e.g. Saturday 21 Aug 2021	Forecast values and calculations relating to each Description for the third day of the forecast period	number(18,3)	120
“DAY+4” e.g. Sunday 22 Aug 2021	Forecast values and calculations relating to each Description for the fourth day of the forecast period	number(18,3)	0.6
“DAY+5” e.g. Monday 23 Aug 2021	Forecast values and calculations relating to each Description for the fifth day of the forecast period	number(18,3)	100
“DAY+6” e.g. Tuesday 24 Aug 2021	Forecast values and calculations relating to each Description for the sixth day of the forecast period	number(18,3)	7
“DAY+7” e.g. Wednesday 25 Aug 2021	Forecast values and calculations relating to each Description for the seventh day of the forecast period	number(18,3)	31.069

Table 2 Descriptions

Description name	Facility type	Calculation
Capacity Available	PIPE	The short term capacity outlook for the pipeline corresponding to the nameplate capacity with the same receipt location and delivery location
Capacity Factor	PIPE	The capacity available, corresponding to the nameplate capacity with the same receipt location and delivery location, divided by the nameplate capacity
Forecast Flow	PIPE	For each pipeline nameplate capacity, as defined by receipt location and delivery location, the calculation of gas flows using the forecast method as defined in Table 3
Forecast Utilisation	PIPE	The Forecast Flow divided by the Capacity Available, corresponding to the nameplate capacity with the same receipt location and delivery location
Capacity Available	PROD	The short term capacity outlook for the production facility
Capacity Factor	PROD	The capacity available divided by the nameplate capacity
Forecast Flow	PROD	The delivery forecasts for the production facility
Forecast Utilisation	PROD	The Forecast Flow divided by the Capacity Available
Storage Delivery Capacity Available	STOR	The short term capacity outlook for the storage facility's delivery capacity
Storage Delivery Capacity Factor	STOR	The storage delivery capacity available divided by the delivery nameplate capacity
Storage Delivery Forecast Flow	STOR	The delivery forecasts for the storage facility
Storage Delivery Forecast Utilisation	STOR	The Storage Delivery Forecast Flow divided by the Storage Delivery Capacity Available
Storage Receipt Capacity Available	STOR	The short term capacity outlook for the storage facility's receipt capacity
Storage Receipt Capacity Factor	STOR	The storage receipt capacity available divided by the receipt nameplate capacity
Storage Receipt Forecast Flow	STOR	The receipt forecasts for the storage facility
Storage Receipt Forecast Utilisation	STOR	The Storage Receipt Forecast Flow divided by the Storage Receipt Capacity Available
Storage Level Capacity Available	STOR	The short term capacity outlook for the storage facility's total capacity
Storage Level Capacity Factor	STOR	The storage level capacity available divided by the storage nameplate capacity

Description name	Facility type	Calculation
Storage Level Forecast	STOR	A calculation of the storage level forecast based on the delivery and receipt forecasts
Storage Level Utilisation	STOR	The Storage Level Forecast divided by the Storage Level Capacity Available
Net Injections Withdrawals by State	PIPE	The sum of all pipeline receipts in a State minus the sum of all deliveries in the State
Net Injections Withdrawals by Pipe	PIPE	The sum of all receipts on a pipeline minus the sum of all deliveries on that pipeline
Net Injections Withdrawals by Pipe and State	PIPE	The sum of all receipts on a pipeline minus the sum of all deliveries on that pipeline, separated to show by State for those pipelines that cross State borders

Table 3 Forecast methods for pipelines

Forecast method	Calculation
Sum of Delivery Points	A summation of all connection point nomination flows where the connection point is of type 'delivery'
Delivery Location Aggregated	Calculates the positive net deliveries at the location on the pipeline. The Location is that of the connection point corresponding to the delivery location in the relevant nameplate capacity for that pipeline
Receipt Location Aggregated	Calculates the positive net receipts at the location on the pipeline. The Location is that of the connection point corresponding to the receipt location in the relevant nameplate capacity for that pipeline
Receipt Location Node	Calculates the positive net receipts at the node of the connection point that is corresponding to the receipt location in the relevant nameplate capacity for that facility
Delivery Location Node	Calculates the positive net deliveries at the node of the connection point that is corresponding to the delivery location in the relevant nameplate capacity for that facility