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# Gas MMS Data Model Upgrade Report

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**AEMO Gas Data Model v2.2 Oracle**

13/09/2022

# 1 Contents

1	Contents .....	2
2	Description of the model AEMO Gas Data Model v2.2 Oracle .....	4
3	Notes .....	4
3.1	Visibility .....	4
4	Package: GAS_BB.....	6
4.1	List of tables.....	6
4.2	Diagram: Entities: Gas Bulletin Board .....	8
4.3	Table: GAS_BASIN.....	10
4.4	Table: GAS_DAILY_STORAGE_ACTUAL .....	11
4.5	Table: GAS_DEVFACILITY .....	12
4.6	Table: GAS_DEVFACILITY_DETAIL .....	13
4.7	Table: GAS_DEVFACILITY_FACILITY .....	15
4.8	Table: GAS_FACILITY.....	16
4.9	Table: GAS_FACILITY_DETAIL .....	17
4.10	Table: GAS_FACILITY_NODE_CONNECTION.....	18
4.11	Table: GAS_FACILITY_SUMMARY .....	20
4.12	Table: GAS_FIELD .....	22
4.13	Table: GAS_FIELD_DETAIL.....	23
4.14	Table: GAS_FIELDINTEREST .....	24
4.15	Table: GAS_FIELDINTEREST_DETAIL.....	25
4.16	Table: GAS_FIELDINTEREST_PARTICIPANT .....	27
4.17	Table: GAS_FIELDINTEREST_SHARE .....	28
4.18	Table: GAS_FIELDINTEREST_SHARETRK.....	29
4.19	Table: GAS_GSH_TRADES .....	30
4.20	Table: GAS_LNG_SHIPMENT .....	32
4.21	Table: GAS_LNG_TRANSACTION .....	33
4.22	Table: GAS_PARTICIPANT_DETAIL.....	34
4.23	Table: GAS_RESERVES_AND_RESOURCES .....	36
4.24	Table: GAS_SHIPPER_LIST .....	39
4.25	Table: GAS_SHORT_TERM_SWAP_TRANS.....	40
4.26	Table: GAS_SHORT_TERM_TRANS.....	41

- 4.27 Table: GAS\_STORAGE\_CAPACITY\_TRANS..... 42
- 5 Package: GAS\_SUPPLY\_HUB..... 44
  - 5.1 List of tables..... 44
  - 5.2 Diagram: Entities: Gas Supply Hub..... 45
  - 5.3 Table: GSH\_DELIVERY\_OBLIGATIONS ..... 46
  - 5.4 Table: GSH\_TRADES..... 48
  - 5.5 Table: GSH\_TRADES\_STAGING ..... 51

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## 2 Description of the model AEMO Gas Data Model v2.2 Oracle

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## 3 Notes

Each table description has a Note providing some information relevant to the table.

### 3.1 Visibility

Visibility refers to the nature of confidentiality of data in the table. Each table has one of the following entries, each described here.

Private: meaning the data is confidential to the Participant.

Public: meaning all Participants have access to the data.

Private, Public Next-Day: meaning the data is confidential until available for public release at beginning of next day (i.e. 4am).

Private & Public: meaning some items are private and some are public.

## 4 Package: GAS\_BB

Name                      GAS\_BB

Comment

### 4.1 List of tables

Name	Comment
GAS_BASIN	This report displays a list of all basins
GAS_DAILY_STORAGE_ACTUAL	Provide on each gas day D, the actual quantity of natural gas held in each storage facility at the end of the gas day D-1.
GAS_DEVFACILITY	Details of all Facility Developments
GAS_DEVFACILITY_DETAIL	Details of all Facility Developments over time
GAS_DEVFACILITY_FACILITY	Any facility that is related to dev facility
GAS_FACILITY	Provides details of all facilities
GAS_FACILITY_DETAIL	The details of all gas plant facilities over time
GAS_FACILITY_NODE_CONNECTION	Identifies the set of connections associated with a node. There are up to four. Up to two for each facility/node combination.  For example, a pipe might be connected to a store via a node. Two of the connections in the node are connected to the pipe and two to the store. Each pair of connections is a delivery or a receipt type of connection.
GAS_FACILITY_SUMMARY	A summary of gas FACILITY, capacity and ownership through time
GAS_FIELD	Field location
GAS_FIELD_DETAIL	Field details
GAS_FIELDINTEREST	Field Interest annual reporting date
GAS_FIELDINTEREST_DETAIL	This report displays information about Field Interests
GAS_FIELDINTEREST_PARTICIPANT	The responsible participant of the field interest
GAS_FIELDINTEREST_SHARE	Field owner group members
GAS_FIELDINTEREST_SHARETRK	Filed Share tracking details over time

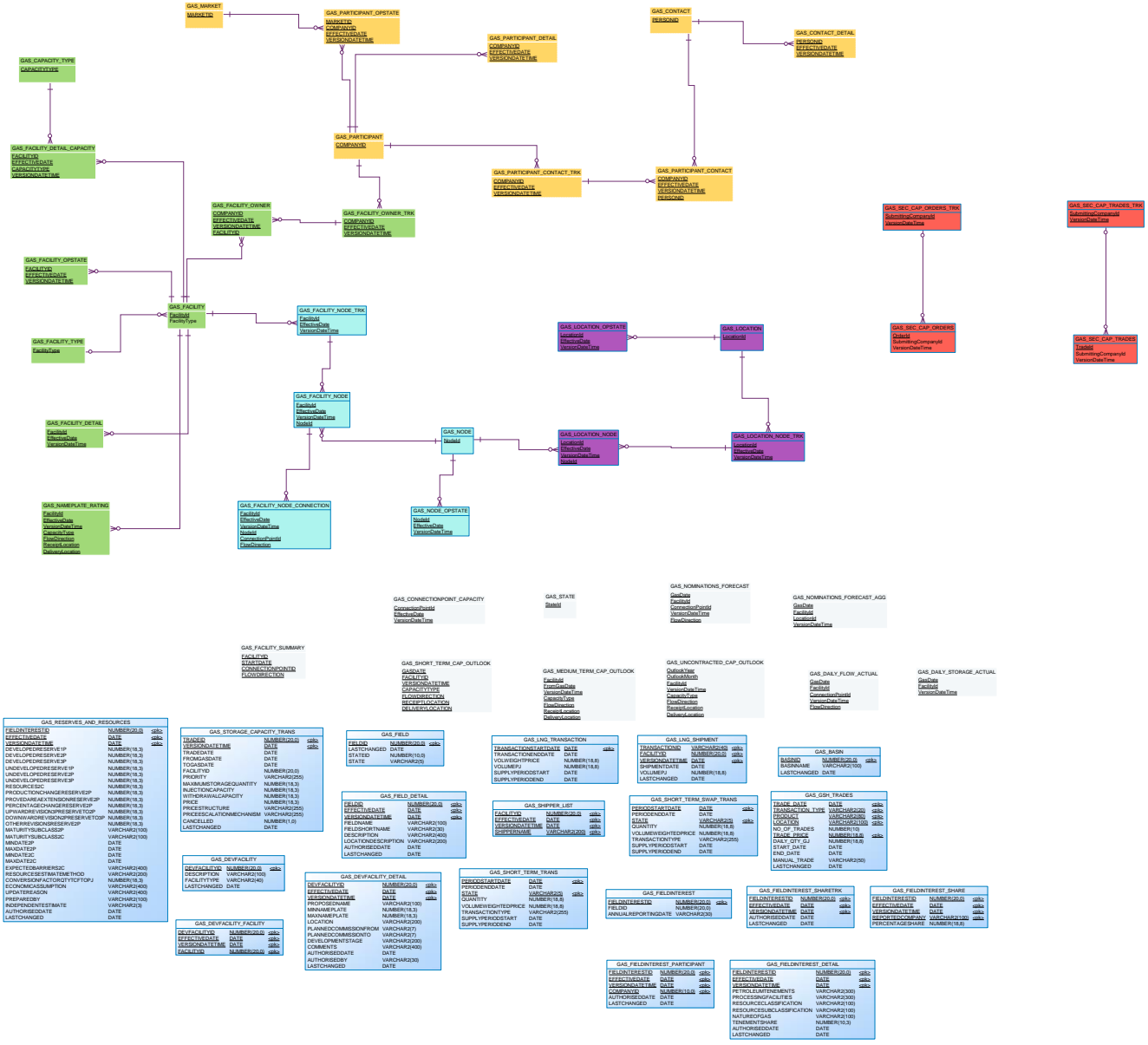
GAS_GSH_TRADES	Provides participants (buyer and seller) a confirmation whenever a trade is executed through auto matching of bids and offers or by off-market trades. Also provides participants with a list of all their future trades when triggered daily after the end of the trades for the current day
GAS_LNG_SHIPMENT	This table displays a list of all LNG shipments
GAS_LNG_TRANSACTION	This table displays LNG transaction aggregated data
GAS_PARTICIPANT_DETAIL	The details of all registered organisations i.e the BB Participants of the Bulletin Board over time
GAS_RESERVES_AND_RESOURCES	This table displays information about Field Reserves and Resources
GAS_SHIPPER_LIST	A list of shippers who have contracted primary Storage, Compression or Pipeline capacity
GAS_SHORT_TERM_SWAP_TRANS	These reports display information regarding short-term gas swap transactions
GAS_SHORT_TERM_TRANS	These reports display information regarding short-term gas transactions
GAS_STORAGE_CAPACITY_TRANS	Gas storage capacity transactions

## 4.2 Diagram: Entities: Gas Bulletin Board

### 4.2.1 Card of diagram Entities: Gas Bulletin Board

Name	Entities: Gas Bulletin Board
Code	ENTITIES__GAS_BULLETIN_BOARD
Comment	<p>The Gas BB ERD is Colour Coded as an aid.</p> <p>The Yellow tables denote Participant Registration.</p> <p>The Green tables denote Participant - Facility ownership and Facility properties.</p> <p>The Purple tables denote Location details.</p> <p>The Blue tables denote Node and Node connection details</p>





### 4.3 Table: GAS\_BASIN

*Name*                                GAS\_BASIN

*Comment*                            This report displays a list of all basins

#### 4.3.1 Primary Key Columns

Name

BASINID

#### 4.3.2 Content

Name	Data Type	Mandatory	Comment
BASINID	NUMBER(20,0)	X	A unique AEMO defined Facility Identifier
BASINNAME	VARCHAR2(100)		The name of the basin. If short name exists then short name included in report
LASTCHANGED	DATE		Date and time record was last modified

## 4.4 Table: GAS\_DAILY\_STORAGE\_ACTUAL

*Name* GAS\_DAILY\_STORAGE\_ACTUAL

*Comment* Provide on each gas day D, the actual quantity of natural gas held in each storage facility at the end of the gas day D-1.

### 4.4.1 Primary Key Columns

Name

FacilityId

GasDate

VersionDateTime

### 4.4.2 Content

Name	Data Type	Mandatory	Comment
GasDate	DATE	X	Date of gas day
FacilityId	NUMBER(10,0)	X	Unique Facility Identifier
VersionDateTime	DATE	X	Version timestamp of the record
ActualQuantity	NUMBER(18,3)		The actual flow quantity reported in TJ to the nearest gigajoule.
LastChanged	DATE		Date and time record was last modified
CUSHIONGASQUANTITY	NUMBER(18,3)		The quantity of natural gas that must be retained in the Storage or LNGImport facility in order to maintain the required pressure and deliverability rates

## 4.5 Table: GAS\_DEVFACILITY

<i>Name</i>	GAS_DEVFACILITY
<i>Comment</i>	Details of all Facility Developments

### 4.5.1 Primary Key Columns

Name
DEVFACILITYID

### 4.5.2 Content

Name	Data Type	Mandatory	Comment
DEVFACILITYID	NUMBER(20,0)	X	A unique AEMO defined Development Facility Identifier
DESCRIPTION	VARCHAR2(100)		Description of development facility
FACILITYTYPE	VARCHAR2(40)		The facility development type
LASTCHANGED	DATE		Date and time record was last modified

## 4.6 Table: GAS\_DEVFACILITY\_DETAIL

<i>Name</i>	GAS_DEVFACILITY_DETAIL
<i>Comment</i>	Details of all Facility Developments over time

### 4.6.1 Primary Key Columns

Name
DEVFACILITYID
EFFECTIVEDATE
VERSIONDATETIME

### 4.6.2 Content

Name	Data Type	Mandatory	Comment
DEVFACILITYID	NUMBER(20,0)	X	A unique AEMO defined Development Facility Identifier
EFFECTIVEDATE	DATE	X	The effective date of the submission
VERSIONDATETIME	DATE	X	Time a successful submission is accepted by AEMO systems
PROPOSEDNAME	VARCHAR2(100)		The name of the Facility development
MINNAMEPLATE	NUMBER(18,3)		The lower estimate of nameplate rating capacity
MAXNAMEPLATE	NUMBER(18,3)		The upper estimate of nameplate rating capacity
LOCATION	VARCHAR2(200)		The location of the development facility
PLANNEDCOMMISSIONFROM	VARCHAR2(7)		The planned start date of commissioning
PLANNEDCOMMISSIONTO	VARCHAR2(7)		The planned end date of commissioning
DEVELOPMENTSTAGE	VARCHAR2(200)		The current stage of the development facility being, PROPOSED, COMMITTED, CANCELLED, ENDED
COMMENTS	VARCHAR2(400)		Any additional comments included in the

			submission
AUTHORISEDDATE	DATE		Date and time this operating state was authorised
AUTHORISEDBY	VARCHAR2(30)		Reporting entity for the facility
LASTCHANGED	DATE		Date and time record was last modified

## 4.7 Table: GAS\_DEVFACILITY\_FACILITY

*Name* GAS\_DEVFACILITY\_FACILITY

*Comment* Any facility that is related to dev facility

### 4.7.1 Primary Key Columns

Name

DEVFACILITYID

EFFECTIVEDATE

FACILITYID

VERSIONDATETIME

### 4.7.2 Content

Name	Data Type	Mandatory	Comment
DEVFACILITYID	NUMBER(20,0)	X	A unique AEMO defined Development Facility Identifier
EFFECTIVEDATE	DATE	X	The effective date of the submission
VERSIONDATETIME	DATE	X	Time a successful submission is accepted by AEMO systems
FACILITYID	NUMBER(20,0)	X	Unique facility identifier

## 4.8 Table: GAS\_FACILITY

*Name*                      GAS\_FACILITY

*Comment*                Provides details of all facilities

### 4.8.1 Primary Key Columns

Name

FacilityId

### 4.8.2 Content

Name	Data Type	Mandatory	Comment
FacilityId	NUMBER(10,0)	X	Unique Facility Identifier
FacilityName	VARCHAR2(100)		Name of the Facility
FacilityType	VARCHAR2(40)		Describes type of Facility. Valid entries are: PIPE, PROD or STOR
LastChanged	DATE		Date and time record was last modified
FACILITYSHORTNAME	VARCHAR2(30)		An abbreviation of the facility name



## 4.9 Table: GAS\_FACILITY\_DETAIL

*Name* GAS\_FACILITY\_DETAIL

*Comment* The details of all gas plant facilities over time

### 4.9.1 Primary Key Columns

Name

EffectiveDate

FacilityId

VersionDateTime

### 4.9.2 Content

Name	Data Type	Mandatory	Comment
FacilityId	NUMBER(10,0)	X	Unique Facility Identifier
EffectiveDate	DATE	X	Effective date of the record
VersionDateTime	DATE	X	Version timestamp of the record
GasDayStartHour	Number(2,0)		Column no longer populated
AuthorisedDate	DATE		Date and time this operating state was authorised
AuthorisedBy	VARCHAR2(30)		User that authorised the change
LastChanged	DATE		Date and time record was last modified

## 4.10 Table: GAS\_FACILITY\_NODE\_CONNECTION

<i>Name</i>	GAS_FACILITY_NODE_CONNECTION
<i>Comment</i>	Identifies the set of connections associated with a node. There are up to four. Up to two for each facility/node combination.  For example, a pipe might be connected to a store via a node. Two of the connections in the node are connected to the pipe and two to the store. Each pair of connections is a delivery or a receipt type of connection.

### 4.10.1 Primary Key Columns

Name
ConnectionPointId
EffectiveDate
FacilityId
FlowDirection
NodeId
VersionDateTime

### 4.10.2 Content

Name	Data Type	Mandatory	Comment
FacilityId	NUMBER(10,0)	X	Unique Facility Identifier
EffectiveDate	DATE	X	Effective date of the record
VersionDateTime	DATE	X	Version timestamp of the record
NodeId	NUMBER(10,0)	X	Unique Node Identifier
ConnectionPointId	NUMBER(10,0)	X	Unique connection point identifier.
FlowDirection	VARCHAR2(20)	X	Direction of flow for the submission record. Must be one of 'RECEIPT' or 'DELIVERY'
IsExempt	NUMBER(1,0)		Submissions are not required if this is set to 1.

HasAggregationPriority	NUMBER(1,0)		If 1, this will be used for aggregating.
ConnectionPointName	VARCHAR2(200)		Name of the Connection point
Mirn	VARCHAR2(20)		Meter Installation Registration Number – (MIRN). Unique identifier for the Victorian DTS delivery or supply point, used to retrieve the Daily Actual Flow and Nomination and Forecast from DWGM.
HasForecast	NUMBER(1,0)		Used to determine the MIRN required for Nomination and Forecast from DWGM.
CONNECTIONPOINTSHORTNAME	VARCHAR2(30)		An abbreviation of the connection point name
EXEMPTIONDESCRIPTION	VARCHAR2(200)		Description of the exemption

## 4.11 Table: GAS\_FACILITY\_SUMMARY

*Name* GAS\_FACILITY\_SUMMARY

*Comment* A summary of gas FACILITY, capacity and ownership through time

### 4.11.1 Primary Key Columns

Name

CONNECTIONPOINTID

FACILITYID

FLOWDIRECTION

STARTDATE

### 4.11.2 Content

Name	Data Type	Mandatory	Comment
FACILITYID	Number(10,0)	X	Unique Facility Identifier
STARTDATE	DATE	X	Effective date of the record
ENDDATE	DATE		End date of the record
NODEID	Number(10,0)		Unique Node Identifier
CONNECTIONPOINTID	Number(10,0)	X	Unique connection point identifier.
FLOWDIRECTION	Varchar2 (20)	X	Direction of flow for the submission record. Must be one of 'RECEIPT' or 'DELIVERY'
CONNECTIONPOINTNAME	Varchar2 (200)		Name of the Connection point
STATEID	Number(10,0)		Unique state identifier
STATE	Varchar2 (5)		Name of the state
FACILITYNAME	Varchar2 (100)		Name of the Facility
FACILITYTYPE	Varchar2 (40)		Describes type of Facility. Valid entries are: PIPE, PROD or STOR

FACILITYTYPEDESCRIPTION	Varchar2 (800)		Description of the facility type
GASDAYSTARTHOUR	Number(2,0)		Column No longer populated
COMPANYID	Number(10,0)		Unique company identifier
COMPANYNAME	Varchar2 (50)		Name of company
LOCATIONID	Number(10,0)		Unique Node Location Identifier
LOCATIONNAME	Varchar2 (100)		Name of the location.
LOCATIONTYPE	Varchar2 (40)		Type of location
LASTCHANGED	DATE		Last changed date for the record

## 4.12 Table: GAS\_FIELD

*Name*                      GAS\_FIELD  
*Comment*                      Field location

### 4.12.1 Primary Key Columns

Name  
 FIELDID

### 4.12.2 Content

Name	Data Type	Mandatory	Comment
FIELDID	NUMBER(20,0)	X	A unique AEMO defined Field Identifier
LASTCHANGED	DATE		Date and time record was last modified
STATEID	NUMBER(10,0)		The state ID the field interest is in
STATE	VARCHAR2(5)		The state the field interest is in

## 4.13 Table: GAS\_FIELD\_DETAIL

*Name* GAS\_FIELD\_DETAIL  
*Comment* Field details

### 4.13.1 Primary Key Columns

Name  
 EFFECTIVEDATE  
 FIELDID  
 VERSIONDATETIME

### 4.13.2 Content

Name	Data Type	Mandatory	Comment
FIELDID	NUMBER(20,0)	X	A unique AEMO defined Field Identifier
EFFECTIVEDATE	DATE	X	The date on which the record takes effect
VERSIONDATETIME	DATE	X	Time a successful submission is accepted by AEMO systems
FIELDNAME	VARCHAR2(100)		The name of the Field in which the Field Interest is located
FIELDSHORTNAME	VARCHAR2(30)		The short name of the field
DESCRIPTION	VARCHAR2(400)		Additional information relating to the field
LOCATIONDESCRIPTION	VARCHAR2(200)		Additional information relating to the location of the field
AUTHORISEDDATE	DATE		Date and time this operating state was authorised
LASTCHANGED	DATE		Date and time record was last modified

## 4.14 Table: GAS\_FIELDINTEREST

*Name* GAS\_FIELDINTEREST  
*Comment* Field Interest annual reporting date

### 4.14.1 Primary Key Columns

Name  
 FIELDINTERESTID

### 4.14.2 Content

Name	Data Type	Mandatory	Comment
FIELDINTERESTID	NUMBER(20,0)	X	A unique AEMO defined Field Interest Identifier
FIELDID	NUMBER(20,0)		A unique AEMO defined Field Identifier
ANNUALREPORTINGDATE	VARCHAR2(30)		The annual reporting date of the field interest



## 4.15 Table: GAS\_FIELDINTEREST\_DETAIL

<i>Name</i>	GAS_FIELDINTEREST_DETAIL
<i>Comment</i>	This report displays information about Field Interests

### 4.15.1 Primary Key Columns

Name
EFFECTIVEDATE
FIELDINTERESTID
VERSIONDATETIME

### 4.15.2 Content

Name	Data Type	Mandatory	Comment
FIELDINTERESTID	NUMBER(20,0)	X	A unique AEMO defined Field Interest Identifier
EFFECTIVEDATE	DATE	X	The date on which the record takes effect
VERSIONDATETIME	DATE	X	Time a successful submission is accepted by AEMO systems
PETROLEUMTENEMENTS	VARCHAR2(300)		The petroleum tenements which are the subject of the BB field interest
PROCESSINGFACILITIES	VARCHAR2(300)		The processing facility used to process gas from the field
RESOURCECLASSIFICATION	VARCHAR2(100)		Classification of the resources in the field as conventional or unconventional
RESOURCESUBCLASSIFICATION	VARCHAR2(100)		Any further sub-classification of the resources
NATUREOFGAS	VARCHAR2(100)		The nature of the gas in the field using classifications in the BB Procedures
TENEMENTSHARE	NUMBER(10,3)		The field interest share of the petroleum tenements
AUTHORISEDDATE	DATE		Date and time this operating state was

			authorised
LASTCHANGED	DATE		Date and time record was last modified

## 4.16 Table: GAS\_FIELDINTEREST\_PARTICIPANT

<i>Name</i>	GAS_FIELDINTEREST_PARTICIPANT
<i>Comment</i>	The responsible participant of the field interest

### 4.16.1 Primary Key Columns

Name
COMPANYID
EFFECTIVEDATE
FIELDINTERESTID
VERSIONDATETIME

### 4.16.2 Content

Name	Data Type	Mandatory	Comment
FIELDINTERESTID	NUMBER(20,0)	X	A unique AEMO defined Field Interest Identifier
EFFECTIVEDATE	DATE	X	The date on which the record takes effect
VERSIONDATETIME	DATE	X	Time a successful submission is accepted by AEMO systems
COMPANYID	NUMBER(10,0)	X	The company ID of the responsible field owner
AUTHORISEDDATE	DATE		Date and time this operating state was authorised
LASTCHANGED	DATE		Date and time record was last modified

## 4.17 Table: GAS\_FIELDINTEREST\_SHARE

*Name* GAS\_FIELDINTEREST\_SHARE  
*Comment* Field owner group members

### 4.17.1 Primary Key Columns

Name  
 EFFECTIVEDATE  
 FIELDINTERESTID  
 REPORTEDCOMPANY  
 VERSIONDATETIME

### 4.17.2 Content

Name	Data Type	Mandatory	Comment
FIELDINTERESTID	NUMBER(20,0)	X	A unique AEMO defined Field Interest Identifier
EFFECTIVEDATE	DATE	X	The date on which the record takes effect
VERSIONDATETIME	DATE	X	Time a successful submission is accepted by AEMO systems
REPORTEDCOMPANY	VARCHAR2(100)	X	Member of the field owner group
PERCENTAGESHARE	NUMBER(18,8)		The percentage share of the group member

## 4.18 Table: GAS\_FIELDINTEREST\_SHARETRK

*Name* GAS\_FIELDINTEREST\_SHARETRK

*Comment* Filed Share tracking details over time

### 4.18.1 Primary Key Columns

Name

EFFECTIVEDATE

FIELDINTERESTID

VERSIONDATETIME

### 4.18.2 Content

Name	Data Type	Mandatory	Comment
FIELDINTERESTID	NUMBER(20,0)	X	A unique AEMO defined Field Interest Identifier
EFFECTIVEDATE	DATE	X	The date on which the record takes effect
VERSIONDATETIME	DATE	X	Time a successful submission is accepted by AEMO systems
AUTHORISEDDATE	DATE		Date and time this operating state was authorised
LASTCHANGED	DATE		Date and time record was last modified

## 4.19 Table: GAS\_GSH\_TRADES

*Name* GAS\_GSH\_TRADES

*Comment* Provides participants (buyer and seller) a confirmation whenever a trade is executed through auto matching of bids and offers or by off-market trades. Also provides participants with a list of all their future trades when triggered daily after the end of the trades for the current day

### 4.19.1 Primary Key Columns

Name

LOCATION

PRODUCT

TRADE\_DATE

TRADE\_PRICE

TRANSACTION\_TYPE

### 4.19.2 Content

Name	Data Type	Mandatory	Comment
TRADE_DATE	DATE	X	Date and time the trade is executed
TRANSACTION_TYPE	VARCHAR2(20)	X	The type of the trade. Valid values are AUTO_MATCHED, OFF_MARKET_TRADE
PRODUCT	VARCHAR2(80)	X	The product delivery period for the Gas Supply Hub market
LOCATION	VARCHAR2(100)	X	Product location for the Gas Supply Hub market
NO_OF_TRADES	NUMBER(10)		Count of number of trades
TRADE_PRICE	NUMBER(18,8)	X	Price value of the trade in \$/GJ
DAILY_QTY_GJ	NUMBER(18,8)		Volume of gas transacted on the Trading Platform in GJ/day
START_DATE	DATE		The start gas day for the order delivery period

END_DATE	DATE		The end gas day for the order delivery period
MANUAL_TRADE	VARCHAR2(50)		Whether the trade is a manual trade
LASTCHANGED	DATE		The date the record was last updated

## 4.20 Table: GAS\_LNG\_SHIPMENT

*Name* GAS\_LNG\_SHIPMENT

*Comment* This table displays a list of all LNG shipments

### 4.20.1 Primary Key Columns

Name

FACILITYID

TRANSACTIONID

VERSIONDATETIME

### 4.20.2 Content

Name	Data Type	Mandatory	Comment
TRANSACTIONID	VARCHAR2(40)	X	Unique shipment identifier
FACILITYID	NUMBER(20,0)	X	Unique facility identifier
VERSIONDATETIME	DATE	X	Time a successful submission is accepted by AEMO systems
SHIPMENTDATE	DATE		For LNG export facility, the departure date. For LNG import facility, the date unloading commences at the LNG import facility
VOLUME PJ	NUMBER(18,8)		Volume of the shipment in PJ
LASTCHANGED	DATE		Date and time record was last modified



## 4.21 Table: GAS\_LNG\_TRANSACTION

*Name* GAS\_LNG\_TRANSACTION

*Comment* This table displays LNG transaction aggregated data

### 4.21.1 Primary Key Columns

*Name*

TRANSACTIONSTARTDATE

### 4.21.2 Content

Name	Data Type	Mandatory	Comment
TRANSACTIONSTARTDATE	DATE	X	Transaction start date
TRANSACTIONENDDATE	DATE		Transaction end date
VOLWEIGHTPRICE	NUMBER(18,8)		The volume weighted price for the reporting period
VOLUME PJ	NUMBER(18,8)		The total volume of the transactions
SUPPLYPERIODSTART	DATE		The earliest start date of all transactions captured in the reporting period
SUPPLYPERIODEND	DATE		The latest end date of all transactions captured in the reporting period

## 4.22 Table: GAS\_PARTICIPANT\_DETAIL

<i>Name</i>	GAS_PARTICIPANT_DETAIL
<i>Comment</i>	The details of all registered organisations i.e the BB Participants of the Bulletin Board over time

### 4.22.1 Primary Key Columns

Name  
COMPANYID  
EFFECTIVEDATE  
VERSIONDATETIME

### 4.22.2 Content

Name	Data Type	Mandatory	Comment
COMPANYID	Number(10,0)	X	Unique company identifier
EFFECTIVEDATE	Date	X	Effective date for this operating state
VERSIONDATETIME	Date	X	Version date time for this operating state
COMPANYNAME	Varchar2 (50)		Name of company
ABN	Varchar2 (30)		Australian Business Number of company
ADDRESSTYPE	Varchar2 (40)		Type of address eg. Head Office, Postal Address etc.
ADDRESS	Varchar2 (120)		Address of company based on AddressType
LOCALE	Varchar2 (40)		City location of company
JURISDICTION	Varchar2 (5)		State location of company
POSTCODE	VARCHAR2(4)		Postcode of company
COMPANYPHONE	Varchar2 (30)		Main (reception) phone of company
COMPANYFAX	Varchar2 (30)		Main (reception) facsimile of company

AUTHORISEDDATE	Date		Date and time this operating state was authorised
AUTHORISEDBY	Varchar2 (30)		User which authorised the change
ORGANISATIONTYPENAME	VARCHAR2(40)		The type of organisation

## 4.23 Table: GAS\_RESERVES\_AND\_RESOURCES

*Name* GAS\_RESERVES\_AND\_RESOURCES

*Comment* This table displays information about Field Reserves and Resources

### 4.23.1 Primary Key Columns

Name

EFFECTIVEDATE

FIELDINTERESTID

VERSIONDATETIME

### 4.23.2 Content

Name	Data Type	Mandatory	Comment
FIELDINTERESTID	NUMBER(20,0)	X	A unique AEMO defined Field Interest Identifier
EFFECTIVEDATE	DATE	X	The date on which the record takes effect
VERSIONDATETIME	DATE	X	Time a successful submission is accepted by AEMO systems
DEVELOPEDRESERVE1P	NUMBER(18,3)		An estimate of the BB field interest 1P developed reserves
DEVELOPEDRESERVE2P	NUMBER(18,3)		An estimate of the BB field interest 2P developed reserves
DEVELOPEDRESERVE3P	NUMBER(18,3)		An estimate of the BB field interest 3P developed reserves
UNDEVELOPEDRESERVE1P	NUMBER(18,3)		An estimate of the BB field interest 1P undeveloped reserves
UNDEVELOPEDRESERVE2P	NUMBER(18,3)		An estimate of the BB field interest 2P undeveloped reserves
UNDEVELOPEDRESERVE3P	NUMBER(18,3)		An estimate of the BB field interest 3P undeveloped reserves
RESOURCES2C	NUMBER(18,3)		An estimate of the BB field interest 2C

			resources
PRODUCTIONCHANGERESERVE2P	NUMBER(18,3)		An estimate of the total movement in the BB field interest 2P reserves since the end of prior reporting year due to the production of gas
PROVEDAREAEXTENSIONRESERVE2P	NUMBER(18,3)		An estimate of the total movement in the BB field interest 2P reserves since the end of prior reporting year due to the extension of a fields proved area
PERCENTAGECHANGERESERVE2P	NUMBER(18,3)		An estimate of the total movement in the BB field interest 2P reserves since the end of prior reporting year due to a percentage change in the BB field interest
UPWARDREVISION3PRESERVE2P	NUMBER(18,3)		An estimate of the total movement in the BB field interest 2P reserves since the end of prior reporting year due to an upward revision of 2P reserves arising from the reclassification of 3P reserves or resources to 2P reserves
DOWNWARDREVISION2PRESERVE3P	NUMBER(18,3)		An estimate of the total movement in the BB field interest 2P reserves since the end of prior reporting year due to a downward revision of 2P reserves arising from the reclassification of 2P reserves to 3P reserves or resources
OTHERREVISIONSRESERVE2P	NUMBER(18,3)		An estimate of the total movement in the BB field interest 2P reserves since the end of prior reporting year due to other revisions
MATURITYSUBCLASS2P	VARCHAR2(100)		The project maturity sub-class for the 2P reserves
MATURITYSUBCLASS2C	VARCHAR2(100)		The project maturity sub-class for the 2C resources
MINDATE2P	DATE		The earliest estimated date for the production of the 2P reserves
MAXDATE2P	DATE		The latest estimated date for the production of the 2P reserves
MINDATE2C	DATE		The earliest estimated date for the production of the 2C resources
MAXDATE2C	DATE		The latest estimated date for the production of the 2C resources

EXPECTEDBARRIERS2C	VARCHAR2(400)		A list of any barriers to the commercial recovery of the 2C resources
RESOURCESESTIMATEMETHOD	VARCHAR2(200)		The resources assessment method used to prepare the reserves and resources estimates
CONVERSIONFACTORQTYTCFTOPJ	NUMBER(18,3)		The conversion factor used to convert quantities measured in trillions of cubic feet to PJ
ECONOMICASSUMPTION	VARCHAR2(400)		The key economic assumptions in the forecast case used to prepare the reserves and resources estimates and the source of the assumptions
UPDATEREASON	VARCHAR2(400)		The reason for the update
PREPAREDBY	VARCHAR2(100)		The name of the person who prepared the estimates
INDEPENDENTESTIMATE	VARCHAR2(3)		Whether the qualified gas industry professional who prepared, or supervised the preparation of, the reserves and resources estimates is independent of the BB reporting entity
AUTHORISEDDATE	DATE		Date and time this operating state was authorised
LASTCHANGED	DATE		Date and time record was last modified

## 4.24 Table: GAS\_SHIPPER\_LIST

*Name* GAS\_SHIPPER\_LIST

*Comment* A list of shippers who have contracted primary Storage, Compression or Pipeline capacity

### 4.24.1 Primary Key Columns

Name

EFFECTIVEDATE

FACILITYID

SHIPPERNAME

VERSIONDATETIME

### 4.24.2 Content

Name	Data Type	Mandatory	Comment
FACILITYID	NUMBER(20,0)	X	A unique AEMO defined Facility Identifier
EFFECTIVEDATE	DATE	X	Gas date that corresponding record takes effect
VERSIONDATETIME	DATE	X	Time a successful submission is accepted by AEMO systems
SHIPPERNAME	VARCHAR2(200)	X	The name of the shipper who holds the capacity

## 4.25 Table: GAS\_SHORT\_TERM\_SWAP\_TRANS

*Name* GAS\_SHORT\_TERM\_SWAP\_TRANS

*Comment* These reports display information regarding short-term gas swap transactions

### 4.25.1 Primary Key Columns

Name

PERIODSTARTDATE

STATE

### 4.25.2 Content

Name	Data Type	Mandatory	Comment
PERIODSTARTDATE	DATE	X	The time period start date
PERIODENDDATE	DATE		The time period end date
STATE	VARCHAR2(5)	X	The state where the transaction occurred
QUANTITY	NUMBER(18,8)		Total volume of the transactions where trade date is in the reporting period for the given state
VOLUMEWEIGHTEDPRICE	NUMBER(18,8)		Volume weighted price of transactions where trade date is in the reporting period for the given State
TRANSACTIONTYPE	VARCHAR2(255)		Whether the swap is a location swap, time swap or both location and time swap
SUPPLYPERIODSTART	DATE		The earliest start date of all transactions in the reporting period for the given state
SUPPLYPERIODEND	DATE		The latest end date of all transactions in the reporting period for the given state



## 4.26 Table: GAS\_SHORT\_TERM\_TRANS

*Name* GAS\_SHORT\_TERM\_TRANS

*Comment* These reports display information regarding short-term gas transactions

### 4.26.1 Primary Key Columns

Name

PERIODSTARTDATE

STATE

### 4.26.2 Content

Name	Data Type	Mandatory	Comment
PERIODSTARTDATE	DATE	X	The time period start date
PERIODENDDATE	DATE		The time period end date
STATE	VARCHAR2(5)	X	The state where the transaction occurred
QUANTITY	NUMBER(18,8)		Total volume of the transactions where trade date is in the reporting period for the given state
VOLUMEWEIGHTEDPRICE	NUMBER(18,8)		Volume weighted price of transactions where trade date is in the reporting period for the given State
TRANSACTIONTYPE	VARCHAR2(255)		Transaction Type is Supply for these short-term transactions reports
SUPPLYPERIODSTART	DATE		The earliest start date of all transactions in the reporting period for the given state
SUPPLYPERIODEND	DATE		The latest end date of all transactions in the reporting period for the given state

## 4.27 Table: GAS\_STORAGE\_CAPACITY\_TRANS

Name GAS\_STORAGE\_CAPACITY\_TRANS

Comment Gas storage capacity transactions

### 4.27.1 Primary Key Columns

Name

TRADEID

VERSIONDATETIME

### 4.27.2 Content

Name	Data Type	Mandatory	Comment
TRADEID	NUMBER(20,0)	X	A unique AEMO defined Transaction Identifier
VERSIONDATETIME	DATE	X	Time a successful submission is accepted by AEMO systems
TRADEDATE	DATE		The date the transaction was entered into
FROMGASDATE	DATE		The start date of the transaction
TOGASDATE	DATE		The end date of the transaction
FACILITYID	NUMBER(20,0)		The gas storage facility ID for the facility by means of which the service is provided
PRIORITY	VARCHAR2(255)		The priority given to the service to which the transaction relates
MAXIMUMSTORAGEQUANTITY	NUMBER(18,3)		The storage capacity the subject of the transaction (in GJ)
INJECTIONCAPACITY	NUMBER(18,3)		The injection capacity (in GJ/day)
WITHDRAWALCAPACITY	NUMBER(18,3)		The withdrawal capacity (in GJ/day)
PRICE	NUMBER(18,3)		The transaction price (in \$/GJ/day or where relevant, in \$/GJ)
PRICESTRUCTURE	VARCHAR2(255)		The price structure applicable to the

			transaction
PRICEESCALATIONMECHANISM	VARCHAR2(255)		Any price escalation mechanism applicable to the transaction
CANCELLED	NUMBER(1,0)		Whether the record has been cancelled
LASTCHANGED	DATE		The date the record was last updated

## 5 Package: GAS\_SUPPLY\_HUB

*Name*                      GAS\_SUPPLY\_HUB

*Comment*                      Gas Supply Hub markets reports to provide Participants with information on their trades, prudential exposure, settlement runs, and registration details

### 5.1 List of tables

Name	Comment
GSH_DELIVERY_OBLIGATIONS	The purpose of this report is to provide the Participants with their Delivery Obligations at each location. Delivery Obligation quantities are results of the delivery netting process.
GSH_TRADES	The purpose of this report is to provide the Participants (buyer and seller) a confirmation whenever a trade is executed through auto matching of bids and offers or by off-Market trades. The report will also provide Participants with a list of all their future trades when triggered daily after the end of the trades for the current day.
GSH_TRADES_STAGING	Provides trading participants a confirmation whenever an EFP trade is submitted to AEMO



## 5.3 Table: GSH\_DELIVERY\_OBLIGATIONS

<i>Name</i>	GSH_DELIVERY_OBLIGATIONS
<i>Comment</i>	The purpose of this report is to provide the Participants with their Delivery Obligations at each location. Delivery Obligation quantities are results of the delivery netting process.

### 5.3.1 Primary Key Columns

Name
NETTING_TRANSACTION_ID

### 5.3.2 Content

Name	Data Type	Mandatory	Comment
NETTING_TRANSACTION_ID	VARCHAR2(20)	X	The unique identifier of the delivery transaction.
BUYER_PARTICIPANT_CODE	VARCHAR2(20)		The unique identifier for the participant on buy side of the trade that has an obligation to receipt gas OR The unique code for the participant with net zero position.
BUYER_PARTICIPANT_NAME	VARCHAR2(80)		The name for the participant on buy side of the trade that has an obligation to receipt gas OR The name of the participant with net zero position.
SELLER_PARTICIPANT_CODE	VARCHAR2(20)		The unique identifier for the participant on seller side of the trade that has an obligation to deliver gas OR The unique code for the participant with net zero position.
SELLER_PARTICIPANT_NAME	VARCHAR2(80)		The name for the participant on seller side of the trade that has an obligation to

			deliver gas OR The name of the participant with net zero position.
FROM_GAS_DATE	DATE		The first gas date in the netting period.
TO_GAS_DATE	DATE		The last gas date of the netting period.
PRODUCT_LOCATION	VARCHAR2(80)		The product location, product grouping code for the Gas Supply Hub market
DELIVERY_QUANTITY	NUMBER(18,8)		The quantity of the delivery transaction GJ/day OR Zero if the participant has a zero net position.
DELIVERY_POINT	VARCHAR2(40)		Delivery point/s and associated quantities determined as part of SUC7407a – Perform Participant Location Netting. OR NULL if the participant has a zero net position.
DELIVERY_TYPE_ALERT	VARCHAR2(20)		This field is empty if the transaction is an output of the delivery-netting module. If the transaction is an original executed trade (due to a system failure), this field shows “Individual Contract Delivery”.
LASTCHANGED	DATE		The date and time the report was generated
ETS_TRADE_ID	VARCHAR2(20)		The exchange transaction ID associated with the delivery obligation for transactions in non-netted products. This field can be cross referenced with the TRADE_ID field in the Trade Execution report to identify the transaction price. This field is empty for trades involving netted products.
RECEIPT_POINT	VARCHAR2(40)		Receipt point specified by the buyer or seller in an order submission for capacity products

## 5.4 Table: GSH\_TRADES

*Name* GSH\_TRADES

*Comment* The purpose of this report is to provide the Participants (buyer and seller) a confirmation whenever a trade is executed through auto matching of bids and offers or by off-Market trades. The report will also provide Participants with a list of all their future trades when triggered daily after the end of the trades for the current day.

### 5.4.1 Primary Key Columns

Name

MARKET\_ID

TRADE\_ID

### 5.4.2 Content

Name	Data Type	Mandatory	Comment
MARKET_ID	VARCHAR2(20)	X	Unique Market ID
TRADE_ID	VARCHAR2(20)	X	Unique trade id generated by the Trading Platform at the time a transaction is executed
BUYER_PARTICIPANT_CODE	VARCHAR2(20)		The participant code used in the Exchange Trading System (ETS) for the participant on buy side of the trade
BUYER_PARTICIPANT_NAME	VARCHAR2(80)		The name for the participant on buy side of the trade
SELLER_PARTICIPANT_CODE	VARCHAR2(20)		The participant code used in the Exchange Trading System (ETS) for the participant on the seller side of the trade
SELLER_PARTICIPANT_NAME	VARCHAR2(80)		The name for the participant on seller side of the trade
FROM_GAS_DATE	DATE		The start gas day for the order delivery period
TO_GAS_DATE	DATE		The end gas day for the order delivery period



TRADE_DATETIME	DATE		Date and time the trade is executed
TRADE_TYPE	VARCHAR2(20)		The type of the trade. Valid values are: AUTO_MATCHED, OFF_MARKET_TRADE
PRODUCT_LOCATION	VARCHAR2(80)		Product location for the Gas Supply Hub market
PRODUCT_TYPE	VARCHAR2(80)		The product delivery period for the Gas Supply Hub market
TRADE_QUANTITY	NUMBER(18,8)		Volume of gas transacted on the Trading Platform in GJ/day
TRADE_PRICE	NUMBER(18,8)		Price value of the trade in \$/GJ
DELIVERY_POINT	VARCHAR2(40)		Delivery Point specified by the seller in an order submission for non-netted commodity products, or the buyer or seller in an order submission for capacity products
ORDER_ID	VARCHAR2(20)		The id of the order used in the trade from the buyer or the seller side depending on the participant getting the report. This field will be null if the TRADE_TYPE is off-market or rarely if the network goes down
LAST_UPDATED	DATE		The date and time the trade was updated i.e. saved into database
LASTCHANGED	DATE		The date and time the report was generated
BUYER_USER_NAME	VARCHAR2(100)		Name of the buyer's account that made submission to the exchange
SELLER_USER_NAME	VARCHAR2(100)		Name of the seller's account that made submission to the exchange
RELATIONSHIP_ID	VARCHAR2(20)		Populated for transactions executed as part of a spread product. Trades triggered by the matching of orders in a spread product will have the same RELATIONSHIP_ID
RECEIPT_POINT	VARCHAR2(40)		Receipt Point specified by the buyer or seller in an order submission for capacity products
VALID_SERVICE_REFERENCE	VARCHAR2(3)		Flag to indicate whether a valid service reference exists for the traded capacity product. Will be NULL for trades involving

			commodity products
VALID_STTM_CONTRACT_REFERENCE	VARCHAR2(3)		Flag to indicate whether a valid STTM contract reference exists for the traded capacity product. Will be NULL for trades involving commodity products and non-STTM integrated capacity products
VALID_DWGM_REFERENCE	VARCHAR2(3)		Flag to indicate whether a valid DWGM accreditation reference exists for the traded capacity product where a DWGM interface point has been specified. Will be NULL for trades involving commodity products and capacity products that do not have a DWGM interface point specified
TRADE_STATUS	VARCHAR2(20)		Status of the trade, for example Accepted, Rejected or Cancelled. Capacity trades are rejected if a valid service reference or STTM contract reference does not exist for the product
GAS_FUTURE_ID	VARCHAR2(20)		The EFP Trade ID for matching trades

## 5.5 Table: GSH\_TRADES\_STAGING

<i>Name</i>	GSH_TRADES_STAGING
<i>Comment</i>	Provides trading participants a confirmation whenever an EFP trade is submitted to AEMO

### 5.5.1 Primary Key Columns

Name
RECORD_ID

### 5.5.2 Content

Name	Data Type	Mandatory	Comment
RECORD_ID	VARCHAR2(20)	X	The unique identifier of the record
MARKET_ID	VARCHAR2(20)		The unique Market ID
PARTICIPANT_ID	VARCHAR2(20)		The unique identifier of the participant
GAS_FUTURE_ID	VARCHAR2(20)		The EFP Trade ID for matching trades
PRODUCT_GROUP_CODE	VARCHAR2(20)		AEMO uses a default value only: GAS-WAL. Data submitted by participants is not stored
PRODUCT_TYPE_CODE	VARCHAR2(20)		AEMO uses a default value only: NG Months. Data submitted by participants is not stored
DELIVERY_POINT	VARCHAR2(40)		AEMO uses a default value only: WAL HP Trade Point. Data submitted by participants is not stored
START_DATE	DATE		The gas start day for the EFP trade period
END_DATE	DATE		The gas end day for the EFP trade period
TRADE_TYPE	VARCHAR2(20)		Buy or Sell
VOLUME	NUMBER(18,8)		Trade quantities measured in GJ for each Gas Day in the Delivery Period
PRICE	NUMBER(18,8)		Trade price

STATUS	VARCHAR2(20)		Submission Status: PENDING, FAIL, MATCH, OVERRIDE
VALIDATION_MSG	VARCHAR2(255)		Submission validation message
SUBMITTED_TIME	DATE		Data submission time
LASTCHANGED	DATE		The date and time the report is generated