



Gas Data Model Upgrade Report

AEMO Gas Data Model v2.2.1 Oracle

8/01/2025

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1 Description of the model AEMO Gas Data Model v2.2.1 Oracle

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2 Notes

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

2.1 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.

3 Package: GAS_BB

<i>Name</i>	GAS_BB
<i>Comment</i>	Gas Bulletin Board markets reports to provide Participants with information on Gas Data.

3.1 List of tables

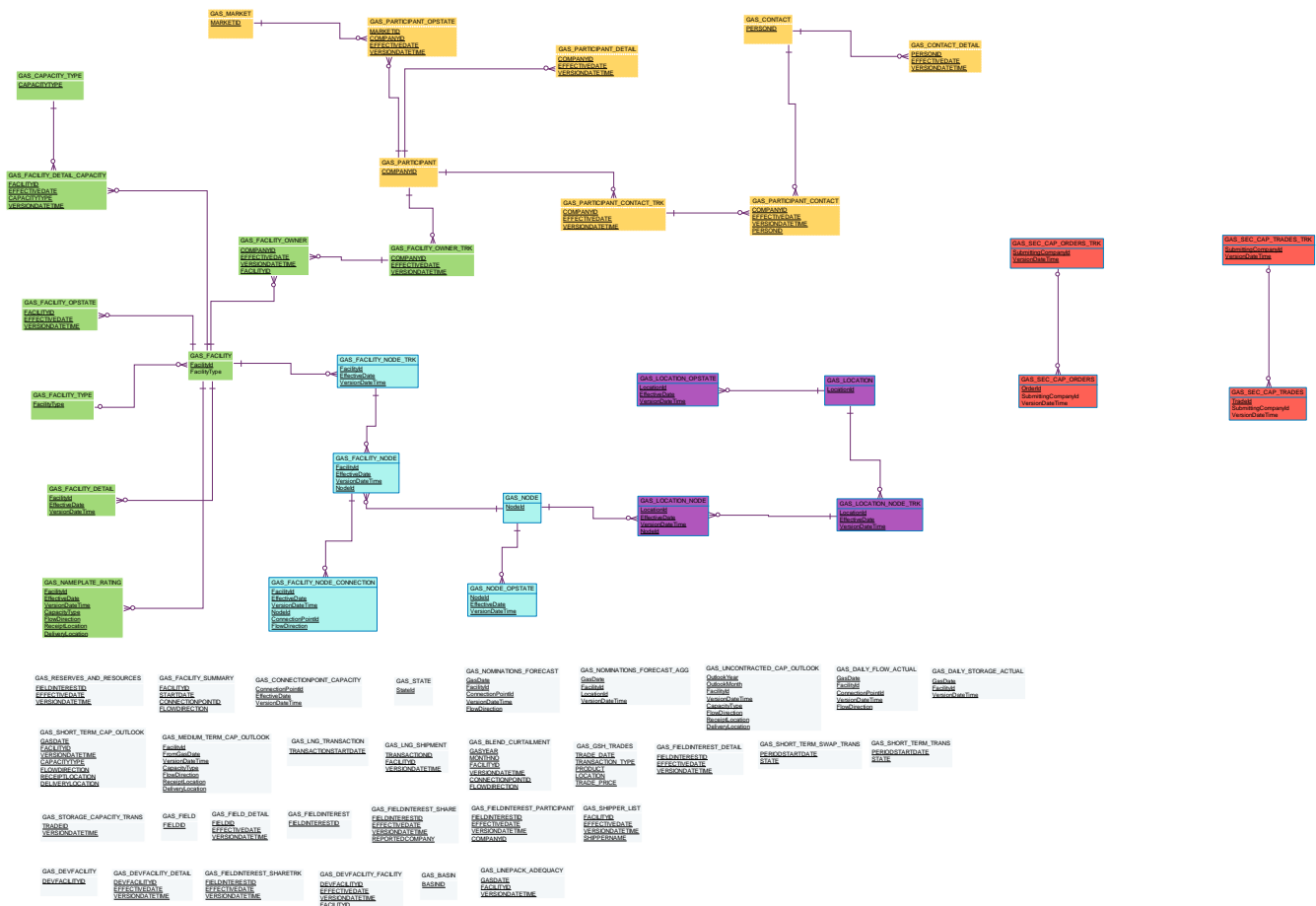
Name	Comment
GAS_BLEND_CURTAILMENT	A table with details of gas blend and gas blend curtailment information
GAS_CONTACT_DETAIL	The registered user list details of responsible contact persons for each BB Participant organisation as identified at registration or otherwise
GAS_DEVFACILITY_DETAIL	Details of all Facility Developments over time
GAS_FACILITY	Provides details of all facilities
GAS_FACILITY_DETAIL	The details of all gas plant facilities over time
GAS_FACILITY_DETAIL_CAPACITY	The standing details on capacity of all gas plant facilities over time
GAS_FACILITY_NODE_TRK	A facility tracking record. A parent record relating to sets of child nodes linked to a facility. The set can be found in GAS_FACILITY_NODE.
GAS_FACILITY_OPSTATE	The operating status of all facilities over time
GAS_FACILITY_OWNER	The detail of facility ownership over time
GAS_FACILITY_OWNER_TRK	The tracking of Facility ownership over time
GAS_FACILITY_SUMMARY	A summary of gas FACILITY, capacity and ownership through time
GAS_LINEPACK_ADEQUACY	The linepack adequacy (flag) for each of the (non-

	exempt) BB pipelines
GAS_LOCATION_NODE_TRK	Provides a record of node tracking.
GAS_LOCATION_OPSTATE	The operating status of all locations over time.
GAS_NODE_OPSTATE	The operating status of all facility nodes over time
GAS_PARTICIPANT_CONTACT	The detail of contacts against a gas participant over time
GAS_PARTICIPANT_CONTACT_TRK	The tracking of sets of contacts against a gas participant over time
GAS_PARTICIPANT_DETAIL	The details of all registered organisations i.e the BB Participants of the Bulletin Board over time
GAS_PARTICIPANT_OPSTATE	The operating status of all registered organisations i.e the BB Participants of the Bulletin Board over time
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

3.2 Diagram: Entities: Gas Bulletin Board

3.2.1 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>



3.3 Table: GAS_BLEND_CURTAILMENT

Name GAS_BLEND_CURTAILMENT

Comment A table with details of gas blend and gas blend curtailment information

3.3.1 Notes

Name	Comment	Value
Visibility	Data confidentiality of this table	Public

3.3.2 Primary Key Columns

Name

CONNECTIONPOINTID

FACILITYID

FLOWDIRECTION

GASYEAR

MONTHNO

VERSIONDATETIME

3.3.3 Content

Name	Data Type	Mandatory	Comment
GASYEAR	NUMBER(4,0)	X	Year the information applies to
MONTHNO	NUMBER(4,0)	X	Month the information applies to
FACILITYID	NUMBER(10,0)	X	Unique Facility Identifier

VERSIONDATETIME	DATE	X	Version timestamp of the record
CONNECTIONPOINTID	NUMBER(10,0)	X	A unique AEMO defined connection point identifier
FLOWDIRECTION	VARCHAR2(20)	X	Direction of flow for the submission record. Must be one of RECEIPT or DELIVERY
BLENDCURTAILEVENTS	NUMBER(20,0)		The number of times a gas blend curtailment has occurred in a month to the BB facility or part of it
BLENDCURTAILQTY	NUMBER(18,3)		Quantity of gas curtailed in TJ
BLENDHIGH	NUMBER(18,3)		Highest blend level reached in %vol on any gas day in the month
BLENDLOW	NUMBER(18,3)		Lowest blend level reached in %vol on any gas day in the month
BLENDAVG	NUMBER(18,3)		The average daily blend level across all gas days in the month provided in %vol terms
GASTYPE	VARCHAR2(20)		Primary gas added to the gas blend
BLENDLIMIT	NUMBER(18,3)		Blend level limit applied for the gas day in %vol
MAXGASDATE	DATE		Gas date in the month when the highest blend level was achieved
MINGASDATE	DATE		Gas date in the month when the lowest blend level was achieved
LASTCHANGED	DATE		Date and time record was last modified

3.4 Table: GAS_CONTACT_DETAIL

<i>Name</i>	GAS_CONTACT_DETAIL
<i>Comment</i>	The registered user list details of responsible contact persons for each BB Participant organisation as identified at registration or otherwise

3.4.1 Primary Key Columns

Name
EFFECTIVEDATE
PERSONID
VERSIONDATETIME

3.4.2 Content

Name	Data Type	Mandatory	Comment
PERSONID	Number(10,0)	X	Unique person identifier
EFFECTIVEDATE	Date	X	Effective date for this operating state
VERSIONDATETIME	Date	X	Version timestamp of the record
POSITION	varchar2(40)		Position of person
PHONE	Varchar2 (30)		Landline phone of person
FAX	Varchar2 (30)		Facsimile of person
MOBILE	Varchar2 (30)		Mobile phone of person
EMAIL	Varchar2 (255)		Email address of person
AUTHORISEDDATE	Date		Date and time this operating state was authorised

AUTHORISED BY	Varchar2 (30)		AEMO internal
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3.5 Table: GAS_DEVFACILITY_DETAIL

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

3.5.1 Primary Key Columns

Name
 DEVFACILITYID
 EFFECTIVEDATE
 VERSIONDATETIME

3.5.2 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	Version timestamp of the record
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)		AEMO internal
LASTCHANGED	DATE		Date and time record was last modified

3.6 Table: GAS_FACILITY

<i>Name</i>	GAS_FACILITY
<i>Comment</i>	Provides details of all facilities

3.6.1 Notes

Name	Comment	Value
Visibility	Data confidentiality of this table	Public

3.6.2 Primary Key Columns

Name
FacilityId

3.6.3 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 the type of facility. Refer to the GAS_FACILITY_TYPE table
LastChanged	DATE		Date and time record was last modified
FACILITYSHORTNAME	VARCHAR2(30)		An abbreviation of the facility name

3.7 Table: GAS_FACILITY_DETAIL

Name GAS_FACILITY_DETAIL

Comment The details of all gas plant facilities over time

3.7.1 Notes

Name	Comment	Value
Visibility	Data confidentiality of this table	Public

3.7.2 Primary Key Columns

Name

EffectiveDate

FacilityId

VersionDateTime

3.7.3 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)		AEMO internal

)		
LastChanged	DATE		Date and time record was last modified

3.8 Table: GAS_FACILITY_DETAIL_CAPACITY

Name GAS_FACILITY_DETAIL_CAPACITY

Comment The standing details on capacity of all gas plant facilities over time

3.8.1 Primary Key Columns

Name

CAPACITYTYPE

EFFECTIVEDATE

FACILITYID

VERSIONDATETIME

3.8.2 Content

Name	Data Type	Mandatory	Comment
FACILITYID	NUMBER(10,0)	X	Unique Facility identifier
EFFECTIVEDATE	DATE	X	Date capacity comes into effect
CAPACITYTYPE	VARCHAR2(20)	X	Capacity Type - Must be either STORAGE or MDQ.
VERSIONDATETIME	DATE	X	Version timestamp of the record
LOWRANGE	NUMBER(3,0)		Percentage value used for (low) validation of capacity outlook
HIRANGE	NUMBER(3,0)		Percentage value used for (high) validation of capacity outlook
UNITS	VARCHAR2(5)		Unit of measurement. Only TJ is used

COMMENTS	VARCHAR2(255)		Free text description of record
AUTHORISEDDATE	DATE		Date and time this operating state was authorised
AUTHORISEDBY	VARCHAR2(30)		AEMO internal

3.9 Table: GAS_FACILITY_NODE_TRK

Name GAS_FACILITY_NODE_TRK

Comment A facility tracking record. A parent record relating to sets of child nodes linked to a facility. The set can be found in GAS_FACILITY_NODE.

3.9.1 Primary Key Columns

Name

EffectiveDate

FacilityId

VersionDateTime

3.9.2 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
AuthorisedDate	DATE		Any records without a date are ignored by AEMO systems.
AuthorisedBy	VARCHAR2(30)		AEMO internal
LastChanged	DATE		Date and time record was last modified

3.10 Table: GAS_FACILITY_OPSTATE

<i>Name</i>	GAS_FACILITY_OPSTATE
<i>Comment</i>	The operating status of all facilities over time

3.10.1 Notes

Name	Comment	Value
Visibility	Data confidentiality of this table	Public

3.10.2 Primary Key Columns

Name

EFFECTIVEDATE

FACILITYID

VERSIONDATETIME

3.10.3 Content

Name	Data Type	Mandatory	Comment
FACILITYID	Number(10,0)	X	Unique Facility identifier
EFFECTIVEDATE	Date	X	Effective date for this operating state
VERSIONDATETIME	Date	X	Version date time for this operating state
OPERATINGSTATE	Varchar2 (20)		Operating status - active, inactive
AUTHORISEDDATE	Date		Date and time this operating state was authorised

AUTHORISEDBY	Varchar2 (30)		AEMO internal
LASTCHANGED	DATE		Date and time record was last modified

3.11 Table: GAS_FACILITY_OWNER

Name GAS_FACILITY_OWNER
Comment The detail of facility ownership over time

3.11.1 Notes

Name	Comment	Value
Visibility	Data confidentiality of this table	Public

3.11.2 Primary Key Columns

Name
 COMPANYID
 EFFECTIVEDATE
 FACILITYID
 VERSIONDATETIME

3.11.3 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 timestamp of the record
FACILITYID	Number(10,0)	X	Unique Facility identifier

3.12 Table: GAS_FACILITY_OWNER_TRK

<i>Name</i>	GAS_FACILITY_OWNER_TRK
<i>Comment</i>	The tracking of Facility ownership over time

3.12.1 Notes

Name	Comment	Value
Visibility	Data confidentiality of this table	Public

3.12.2 Primary Key Columns

Name

COMPANYID

EFFECTIVEDATE

VERSIONDATETIME

3.12.3 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 timestamp of the record
AUTHORISEDDATE	Date		Date and time this operating state was authorised
AUTHORISEDBY	Varchar2 (30)		AEMO internal

LASTCHANGED	DATE		Date and time record was last modified
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3.13 Table: GAS_FACILITY_SUMMARY

Name GAS_FACILITY_SUMMARY

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

3.13.1 Notes

Name	Comment	Value
Visibility	Data confidentiality of this table	Public

3.13.2 Primary Key Columns

Name

CONNECTIONPOINTID

FACILITYID

FLOWDIRECTION

STARTDATE

3.13.3 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 the type of facility. Refer to the GAS_FACILITY_TYPE table
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

3.14 Table: GAS_LINEPACK_ADEQUACY

Name GAS_LINEPACK_ADEQUACY

Comment The linepack adequacy (flag) for each of the (non-exempt) BB pipelines

3.14.1 Primary Key Columns

Name

FACILITYID

GASDATE

VERSIONDATETIME

3.14.2 Content

Name	Data Type	Mandatory	Comment
GASDATE	Date	X	Date of gas day applicable under either the pipeline contract or market rules
FACILITYID	Number(10,0)	X	Unique Facility identifier
VERSIONDATETIME	Date	X	Version timestamp of the record
FLAG	Varchar2 (5)		Expected adequacy for the gas day. Valid entries are GREEN, AMBER or RED
DESCRIPTION	Varchar2 (800)		Free text description of record

3.15 Table: GAS_LOCATION_NODE_TRK

Name GAS_LOCATION_NODE_TRK
Comment Provides a record of node tracking.

3.15.1 Notes

Name	Comment	Value
Visibility	Data confidentiality of this table	Public

3.15.2 Primary Key Columns

Name
 EffectiveDate
 LocationId
 VersionDateTime

3.15.3 Content

Name	Data Type	Mandatory	Comment
LocationId	NUMBER(10,0)	X	Unique Location identifier.
EffectiveDate	DATE	X	Effective date of the record
VersionDateTime	DATE	X	Version timestamp of the record
AuthorisedDate	DATE		Date and time this operating state was authorised
AuthorisedBy	VARCHAR2(30)		AEMO internal

LastChanged	DATE		Date and time record was last modified
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3.16 Table: GAS_LOCATION_OPSTATE

Name GAS_LOCATION_OPSTATE
Comment The operating status of all locations over time.

3.16.1 Notes

Name	Comment	Value
Visibility	Data confidentiality of this table	Public

3.16.2 Primary Key Columns

Name
 EffectiveDate
 LocationId
 VersionDateTime

3.16.3 Content

Name	Data Type	Mandatory	Comment
LocationId	NUMBER(10,0)	X	Unique Location identifier.
EffectiveDate	DATE	X	Effective date of the record
VersionDateTime	DATE	X	Version timestamp of the record
OperatingState	VARCHAR2(20)		Operating status - active, inactive.
AuthorisedDate	DATE		Date and time this operating state was authorised.

AuthorisedBy	VARCHAR2(30)		AEMO internal
LastChanged	DATE		Date and time record was last modified

3.17 Table: GAS_NODE_OPSTATE

Name GAS_NODE_OPSTATE
Comment The operating status of all facility nodes over time

3.17.1 Notes

Name	Comment	Value
Visibility	Data confidentiality of this table	Public

3.17.2 Primary Key Columns

Name
 EffectiveDate
 NodeId
 VersionDateTime

3.17.3 Content

Name	Data Type	Mandatory	Comment
NodeId	NUMBER(10,0)	X	Unique Node Identifier
EffectiveDate	DATE	X	Effective date of the record
VersionDateTime	DATE	X	Version timestamp of the record
OperatingState	VARCHAR2(20)		Operating status - active, inactive.
AuthorisedDate	DATE		Date and time this operating state was authorised.

AuthorisedBy	VARCHAR2(30)		AEMO internal
LastChanged	DATE		Date and time record was last modified

3.18 Table: GAS_PARTICIPANT_CONTACT

Name GAS_PARTICIPANT_CONTACT

Comment The detail of contacts against a gas participant over time

3.18.1 Primary Key Columns

Name

COMPANYID

EFFECTIVEDATE

PERSONID

VERSIONDATETIME

3.18.2 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 timestamp of the record
PERSONID	Number(10,0)	X	Unique person identifier

3.19 Table: GAS_PARTICIPANT_CONTACT_TRK

Name GAS_PARTICIPANT_CONTACT_TRK

Comment The tracking of sets of contacts against a gas participant over time

3.19.1 Primary Key Columns

Name

COMPANYID

EFFECTIVEDATE

VERSIONDATETIME

3.19.2 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 timestamp of the record
AUTHORISEDDATE	Date		Date and time this operating state was authorised
AUTHORISEDBY	Varchar2 (30)		AEMO internal

3.20 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

3.20.1 Primary Key Columns

Name
COMPANYID
EFFECTIVEDATE
VERSIONDATETIME

3.20.2 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 timestamp of the record
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)		AEMO internal
ORGANISATIONTYPE NAME	VARCHAR2(40)		The type of organisation

3.21 Table: GAS_PARTICIPANT_OPSTATE

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

3.21.1 Primary Key Columns

Name
COMPANYID
EFFECTIVEDATE
MARKETID
VERSIONDATETIME

3.21.2 Content

Name	Data Type	Mandatory	Comment
MARKETID	Varchar2(20)	X	Unique Market identifier
COMPANYID	Number(10,0)	X	Unique company identifier
EFFECTIVEDATE	Date	X	Effective date for this operating state
VERSIONDATETIME	Date	X	Version timestamp of the record
OPERATINGSTATE	Varchar2 (20)		Operating status - active, inactive
AUTHORISEDDATE	Date		Date and time this operating state was authorised
AUTHORISEDBY	Varchar2 (30)		AEMO internal

3.22 Table: GAS_SHORT_TERM_SWAP_TRANS

Name GAS_SHORT_TERM_SWAP_TRANS

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

3.22.1 Primary Key Columns

Name

PERIODSTARTDATE

STATE

3.22.2 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(22,8)		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

3.23 Table: GAS_SHORT_TERM_TRANS

Name GAS_SHORT_TERM_TRANS

Comment These reports display information regarding short-term gas transactions

3.23.1 Primary Key Columns

Name

PERIODSTARTDATE

STATE

3.23.2 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(22,8)		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