Gas Data Model Upgrade Report

AEMO Gas Data Model v2.2.2 Oracle

2/10/2025

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1 Description of the model AEMO Gas Data Model v2.2.2 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

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

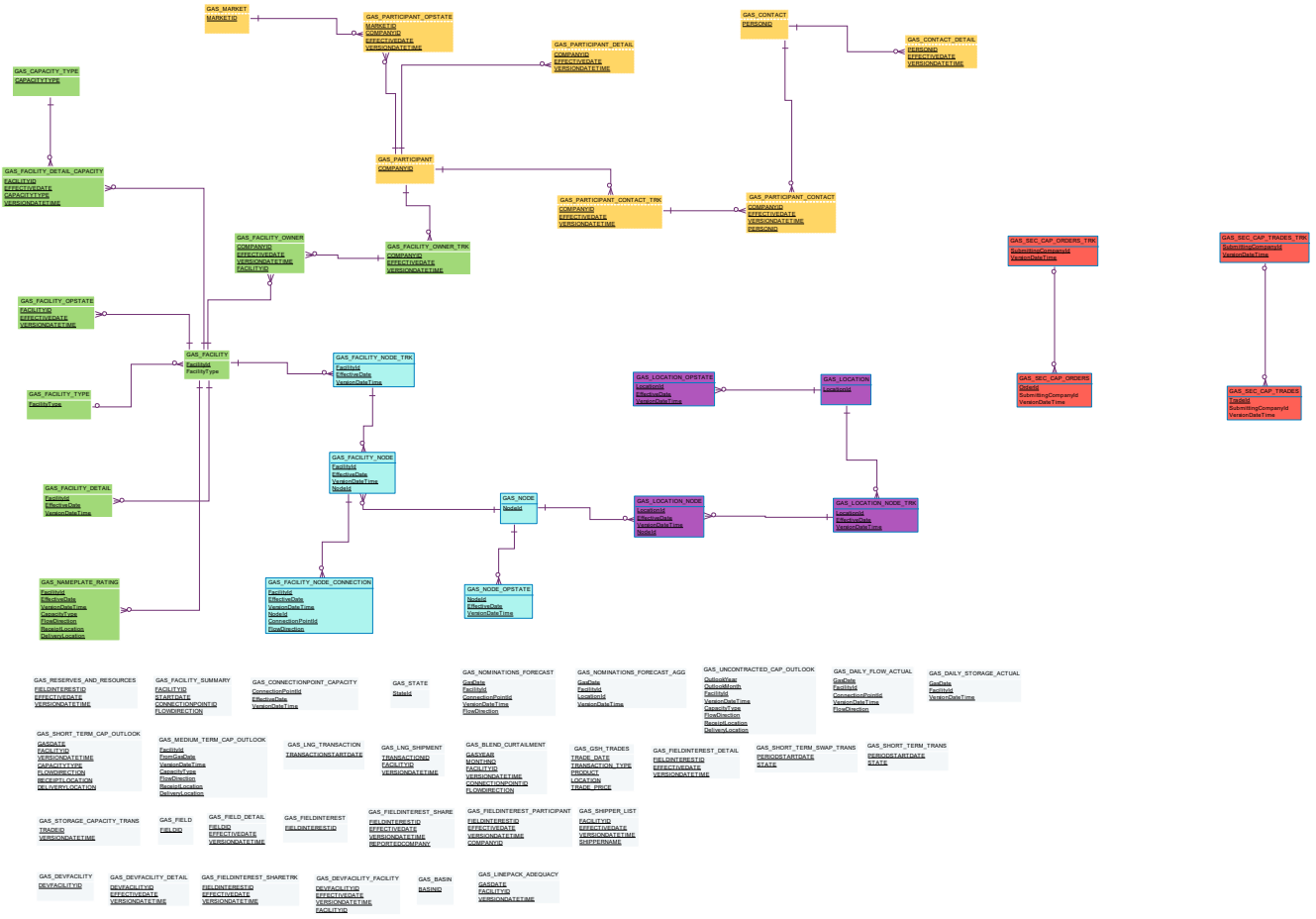
3.1 List of tables

Name	Comment
GAS_RESERVES_AND_RESOURCES	This table displays information about Field Reserves and Resources

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	The Gas BB ERD is Colour Coded as an aid. The Yellow tables denote Participant Registration. The Green tables denote Participant - Facility ownership and Facility properties. The Purple tables denote Location details. The Blue tables denote Node and Node connection details



3.3 Table: GAS_RESERVES_AND_RESOURCES

Name GAS_RESERVES_AND_RESOURCES

Comment This table displays information about Field Reserves and Resources

3.3.1 Primary Key Columns

Name

EFFECTIVEDATE

FIELDINTERESTID

VERSIONDATETIME

3.3.2 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
UPWARDREVISION3PRESERVETO2P	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
DOWNWARDREVISION2PRESERVETO3P	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
OTHERREVISIONSRESERVE 2P	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(1000)		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 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

4.1 List of tables

Name	Comment
GSH_SUPP_AUCTION_QUANTITIES	Details of Auction Quantities won used in Settlements
GSH_SUPP_EXECUTED_TRADES	The Settlements Supporting Data Report is generated when Final and Revision settlement statements are issued; it is also generated daily with details of the latest initial settlement run of the day. The report contains settlements summary information as well as participant specific data from that settlement run for the relevant charges and payments per gas day. It provides a breakdown of all executed trades and delivered quantities records included in this settlement run to assist participant in their settlement statements reconciliation. The Executed Trades subreport provides a list of all individual executed trades records included in the settlement run.

4.2 Diagram: Entities: Gas Supply Hub

4.2.1 Card of diagram Entities: Gas Supply Hub

Name	Entities: Gas Supply Hub
Code	ENTITIES__GAS_SUPPLY_HUB
Comment	

4.3 Table: GSH_SUPP_AUCTION_QUANTITIES

Name	GSH_SUPP_AUCTION_QUANTITIES
Comment	Details of Auction Quantities won used in Settlements

4.3.1 Notes

Name	Comment	Value
Visibility	Data confidentiality of this table	Private

4.3.2 Primary Key Columns

Name

AUCTION_TRANSACTION_ID

PARTICIPANT_CODE

SETTLEMENT_RUN_ID

4.3.3 Content

Name	Data Type	Mandatory	Comment
MARKET_ID	VARCHAR2(20)		Unique Market ID
SETTLEMENT_RUN_ID	NUMBER(18,0)	X	The unique identifier for the settlement run.
BILLING_PERIOD	VARCHAR2(20)		The billing period for the settlement run.
PARTICIPANT_CODE	VARCHAR2(20)	X	The participant code.

GAS_DATE	DATE		The gas date when the quantity is delivered. Disregard the time component as this is not applicable.
AUCTION_TRANSACTION_ID	NUMBER(12,0)	X	The unique identifier of the auction transaction included in the settlement run.
AUCTION_QUANTITY	NUMBER(10,0)		The initial capacity quantity won at auction.
REVISED_AUCTION_QUANTITY	NUMBER(10,0)		The actual auction quantity in GJ. This is based on the revised quantity reported by facility operators on D+1.
PRODUCT_PRICE	NUMBER(18,8)		The price of the auction product won at auction ($/GJ) by the participant.
SCHEDULED_QUANTITY	NUMBER(18,8)		Extra supporting data so participants can reconcile
MIN_REVISED_AUCTION_QUANTITY	NUMBER(18,8)		Extra supporting data so participants can reconcile

4.4 Table: GSH_SUPP_EXECUTED_TRADES

Name GSH_SUPP_EXECUTED_TRADES

Comment The Settlements Supporting Data Report is generated when Final and Revision settlement statements are issued; it is also generated daily with details of the latest initial settlement run of the day. The report contains settlements summary information as well as participant specific data from that settlement run for the relevant charges and payments per gas day. It provides a breakdown of all executed trades and delivered quantities records included in this settlement run to assist participant in their settlement statements reconciliation. The Executed Trades subreport provides a list of all individual executed trades records included in the settlement run.

4.4.1 Notes

Name	Comment	Value
Visibility	Data confidentiality of this table	Private

4.4.2 Primary Key Columns

Name

GAS_DATE

PARTICIPANT_CODE

SETTLEMENT_RUN_ID

TRADE_ID

4.4.3 Content

Name	Data Type	Mandatory	Comment
SETTLEMENT_RUN_ID	NUMBER(18,0)	X	The unique identifier for the settlement run
PARTICIPANT_CODE	VARCHAR2(20	X	The participant code

	)		
TRADE_ID	VARCHAR2(20)	X	The unique identifier for the executed trade included in the settlement run
GAS_DATE	DATE	X	The gas date for the trade was executed on
BILLING_PERIOD	VARCHAR2(20)		The billing period for the settlement run, note that the billing period will only have value for Final and Revision settlement run types, and it will be null for the initial settlement run
TRADE_SIDE	VARCHAR2(20)		This field specified whether the participant was the buyer or the seller in the trade
TRADE_QUANTITY	NUMBER(18,8)		The quantity of the executed trade
TRADE_PRICE	NUMBER(18,8)		The price of the executed trade
LOW_PRESSURE_DISCOUNT_FLAG	NUMBER(1,0)		A flag to indicate low pressure discount