

MMS Data Model Upgrade Report

MMS Data Model v5.0 Oracle

3/12/2020

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2 Description of the model MMS Data Model v5.0 Oracle

Background

The MMS Data Model is the definition of the interface to participants of data published by AEMO from the NEM system. A database conforming to the MMS Data Model can contain a local copy of all current participant-specific data recorded in the main NEM production database. The target databases have been called such names as the Participant Database, the Participant InfoServer and the Replica Database.

The MMS Data Model includes database tables, indexes and primary keys. The model is currently exposed as a physical model, so is different in presentation for each RDBMS. However, the same logical model underlies all the physical models published by AEMO.

The MMS Data Model is the target model for products transferring data from AEMO to each participant. Current product supplied by AEMO for data transfer is Participant Data Replication (PDR), with some support for the superseded Parser.

Compatibility of the transfer products with the MMS Data Model is the responsibility of those products and their configuration. AEMO's intention is to supply the data transfer products preconfigured to deliver data consistent with the MMS Data Model, noting differences where they occur (e.g. for historical reasons).

Entity Diagrams

The entity diagrams show the key columns. Relationships have now been included in many cases.

Note:

The National Electricity Market registration classification of Yarwun Power Station Unit 1 (dispatchable unit ID: YARWUN_1) is market non-scheduled generating unit. However, it is a condition of the registration of this unit that the Registered Participant complies with some of the obligations of a Scheduled Generator. This unit is dispatched as a scheduled generating unit with respect to its dispatch offers, targets and generation outputs. Accordingly, information about YARWUN_1 is reported as scheduled generating unit information.

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 (e.g. BILLINGFEES).

Public: meaning all Participants have access to the data (e.g. DISPATCHPRICE).

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

Private & Public: meaning some items are private and some are public (e.g. MARKETNOTICES).

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4 Package: BIDS

Name BIDS

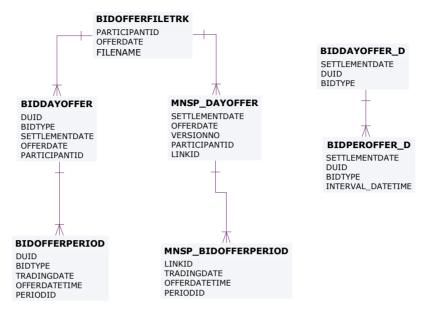
Comment Energy and Market Based FCAS Offers

4.1 List of tables

Name	Comment		
BIDDAYOFFER	BIDDAYOFFER shows the Energy and Ancillary Service bid data for each Market Day. BIDDAYOFFER is the parent table to BIDOFFERPERIOD. BIDDAYOFFER is a child table to BIDOFFERFILETRK		
BIDOFFERFILETRK	BIDOFFERFILETRK shows an audit trail of all files submitted containing ENERGY/FCAS/MNSP bid, including corrupt bids and rebids.		
BIDOFFERPERIOD	BIDOFFERPERIOD shows 5-minute period-based Energy and Ancillary Service bid data.BIDOFFERPERIOD is a child table of BIDDAYOFFER		
MNSP_BIDOFFERPERIOD	MNSP_BIDOFFERPERIOD shows availability for 5-minute periods for a specific Bid and LinkID for the given Trading Date and period. MNSP_BIDOFFERPERIOD is a child to MNSP_DAYOFFER and links to BIDOFFERFILETRK for 5MS Bids.		
MNSP_DAYOFFER	MNSP_DAYOFFER updates as bids are processed. All bids are available as part of next day market data. MNSP_DAYOFFER is the parent table to MNSP_BIDOFFERPERIOD, and joins to BIDOFFERFILETRK for 5MS Bids.		

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4.2 Diagram: Entities: Bids



MTPASA_OFFERFILETRK

PARTICIPANTID OFFERDATETIME

MTPASA_OFFERDATA

PARTICIPANTID OFFERDATETIME UNITID EFFECTIVEDATE

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4.3 Table: BIDDAYOFFER

Name BIDDAYOFFER

Comment BIDDAYOFFER shows the Energy and Ancillary Service bid data for each Market

Day. BIDDAYOFFER is the parent table to BIDOFFERPERIOD. BIDDAYOFFER

is a child table to BIDOFFERFILETRK

4.3.1 Description

The ancillary service arrangements require availability and prices for each Frequency Control Ancillary Service to be bid on a similar basis to energy. Three tables (BIDOFFERFILETRK, BIDDAYOFFER and BIDOFFERPERIOD) facilitate ancillary service bidding and include energy bidding.

BIDDAYOFFER data is confidential to the submitting participant until made public after 4am the next day.

Source

BIDDAYOFFER updates as ancillary service bids are processed. BIDDAYOFFER includes all accepted energy and ancillary service bids.

Volume

Approximately 1,500,000 records per year

4.3.2 Notes

Name Comment Value

Visibility Data in this table is: Private; Public Next-Day

4.3.3 Primary Key Columns

Name

BIDTYPE

DUID

OFFERDATE

SETTLEMENTDATE

4.3.4 Index Columns

Name

LASTCHANGED

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4.3.5 Index Columns

Name

PARTICIPANTID

4.3.6 Content

Name	Data Type	Mandat ory	Comment
DUID	VARCHAR2(10)	Х	Dispatchable unit identifier
BIDTYPE	VARCHAR2(10)	Х	Bid Type Identifier
SETTLEMENTDATE	DATE	Х	Market date for applying the bid
OFFERDATE	TIMESTAMP(3)	X	Time this bid was processed and loaded
VERSIONNO	NUMBER(22,0)		Version No. for given offer date
PARTICIPANTID	VARCHAR2(10)	Х	Unique participant identifier
DAILYENERGYCONSTRAINT	NUMBER(12,6)		Maximum energy available from Energy Constrained Plant. (Energy Bids Only)
REBIDEXPLANATION	VARCHAR2(500)		Explanation for all rebids and inflexibilities
PRICEBAND1	NUMBER(9,2)		Price for Availability Band 1
PRICEBAND2	NUMBER(9,2)		Price for Availability Band 2
PRICEBAND3	NUMBER(9,2)		Price for Availability Band 3
PRICEBAND4	NUMBER(9,2)		Price for Availability Band 4
PRICEBAND5	NUMBER(9,2)		Price for Availability Band 5
PRICEBAND6	NUMBER(9,2)		Price for Availability Band 6
PRICEBAND7	NUMBER(9,2)		Price for Availability Band 6
PRICEBAND8	NUMBER(9,2)		Price for Availability Band 8
PRICEBAND9	NUMBER(9,2)		Price for Availability Band 9
PRICEBAND10	NUMBER(9,2)		Price for Availability Band 10
MINIMUMLOAD	NUMBER(22,0)		Minimum MW load fast start plant

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T1	NUMBER(22,0)	Time to synchronise in minutes (Energy Bids Only)
T2	NUMBER(22,0)	Time to minimum load in minutes (Energy Bids Only)
ТЗ	NUMBER(22,0)	Time at minimum load in minutes (Energy Bids Only)
Т4	NUMBER(22,0)	Time to shutdown in minutes (Energy Bids Only)
NORMALSTATUS	VARCHAR2(3)	not used; was ON/OFF for loads (Energy Bids Only)
LASTCHANGED	DATE	Last date and time record changed
MR_FACTOR	NUMBER(16,6)	Mandatory Restriction Offer Factor
ENTRYTYPE	VARCHAR2(20)	Daily if processed before BidCutOff of previous day, otherwise REBID
REBID_EVENT_TIME	VARCHAR2(20)	The time of the event(s) or other occurrence(s) cited/adduced as the reason for the rebid. Required for rebids, not required for fixed load or low ramp rates. Expected in the format: HH:MM:SS e.g. 20:11:00
REBID_AWARE_TIME	VARCHAR2(20)	Intended to support the Rebidding and Technical Parameters Guideline. The time at which the participant became aware of the event(s) / occurrence(s) that prompted the rebid.Not validated by AEMO
REBID_DECISION_TIME	VARCHAR2(20)	Intended to support the Rebidding and Technical Parameters Guideline. The time at which the participant made the decision to rebid. Not validated by AEMO
REBID_CATEGORY	VARCHAR2(1)	Intended to support the Rebidding and Technical Parameters Guideline. A provided rebid category. Not validated by AEMO
REFERENCE_ID	VARCHAR2(100)	A participants unique Reference Id

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4.4 Table: BIDOFFERFILETRK

Name BIDOFFERFILETRK

Comment BIDOFFERFILETRK shows an audit trail of all files submitted containing

ENERGY/FCAS/MNSP bid, including corrupt bids and rebids.

4.4.1 Description

BIDOFFERFILETRK data is confidential to the submitting participant.

The new ancillary service arrangements require availability and prices for each Frequency Control Ancillary Service to be bid on a similar basis to energy. Three new tables facilitate ancillary service bidding. The new tables (BIDOFFERFILETRK, BIDDAYOFFER and BIDOFFERPERIOD) are similar in structure to energy bidding tables (OFFERFILETRK, DAYOFFER and PEROFFER). The significant differences with the new tables are.

- The OFFERDATE field reflects the time the bid was loaded and this field alone provides the key for versioning of bids. The VERSIONNO field is retained for participant use as information only.
- The new tables support bids for multiple services. The BIDTYPE field defines the service to which the bid applies.
- There are no default bids. In the absence of a bid for a specific settlement date, the latest bid submitted for a previous settlement date applies.

Source

This data is updated as bids are processed. It includes all bids submitted including corrupt bids.

Volume

Approximately 100,000 records per year

Note

Confirmation is via CSV bid acknowledgement file

4.4.2 Notes

Name Comment Value

Visibility Data in this table is: Private

4.4.3 Primary Key Columns

Name

FILENAME

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4.4.4 Primary Key Columns

Name

OFFERDATE

PARTICIPANTID

4.4.5 Index Columns

Name

LASTCHANGED

4.4.6 Content

Name	Data Type	Mandat ory	Comment
PARTICIPANTID	VARCHAR2(10)	Х	Unique participant identifier
OFFERDATE	TIMESTAMP(3)	Х	Time this bid was processed and loaded
FILENAME	VARCHAR2(80)	Х	Submitted file name
STATUS	VARCHAR2(10)		Load status [SUCCESSFUL/CORRUPT]
LASTCHANGED	DATE		Last date and time record changed
AUTHORISEDBY	VARCHAR2(20)		Participant agent who created the Offer
AUTHORISEDDATE	DATE		When the Offer was processed - synonymous with LastChanged
TRANSACTION_ID	VARCHAR2(100)		A GUID used to identify the submission transaction in AEMOs systems
REFERENCE_ID	VARCHAR2(100)		A participant provided reference, which is required to be unique per submission (for a PARTICIPANTID)
SUBMISSION_TIMESTAMP	DATE		The participant provided date/time for the submission
COMMENTS	VARCHAR2(100 0)		A participant provided comment

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4.5 Table: BIDOFFERPERIOD

Name BIDOFFERPERIOD

Comment BIDOFFERPERIOD shows 5-minute period-based Energy and Ancillary Service

bid data.BIDOFFERPERIOD is a child table of BIDDAYOFFER

4.5.1 Primary Key Columns

Name

BIDTYPE

DUID

OFFERDATETIME

PERIODID

TRADINGDATE

4.5.2 Content

Name	Data Type	Mandat ory	Comment
DUID	VARCHAR2(20)	Х	Dispatchable Unit ID
BIDTYPE	VARCHAR2(10)	X	The type of bid, one-of ENERGY, RAISE6SEC, RAISE60SEC, RAISE5MIN, RAISEREG, LOWER6SEC, LOWER60SEC, LOWER5MIN, LOWERREG
TRADINGDATE	DATE	Х	The trading date this bid is for
OFFERDATETIME	TIMESTAMP(3)	X	Time this bid was processed and loaded
PERIODID	NUMBER(3,0)	X	Period ID 1 to 288
MAXAVAIL	NUMBER(8,3)		Maximum availability for this BidType in this period
FIXEDLOAD	NUMBER(8,3)		Fixed unit output MW (Energy bids only) A null value means no fixed load so the unit is dispatched according to bid and market
RAMPUPRATE	NUMBER(6)		MW/Min for raise (Energy bids only)

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RAMPDOWNRATE	NUMBER(6)	MW/Min for lower (Energy bids only)
ENABLEMENTMIN	NUMBER(8,3)	Minimum Energy Output (MW) at which this ancillary service becomes available (AS Only)
ENABLEMENTMAX	NUMBER(8,3)	Maximum Energy Output (MW) at which this ancillary service can be supplied (AS Only)
LOWBREAKPOINT	NUMBER(8,3)	Minimum Energy Output (MW) at which the unit can provide the full availability (MAXAVAIL) for this ancillary service (AS Only)
HIGHBREAKPOINT	NUMBER(8,3)	Maximum Energy Output (MW) at which the unit can provide the full availability (MAXAVAIL) for this ancillary service (AS Only)
BANDAVAIL1	NUMBER(8,3)	Availability at price band 1
BANDAVAIL2	NUMBER(8,3)	Availability at price band 2
BANDAVAIL3	NUMBER(8,3)	Availability at price band 3
BANDAVAIL4	NUMBER(8,3)	Availability at price band 4
BANDAVAIL5	NUMBER(8,3)	Availability at price band 5
BANDAVAIL6	NUMBER(8,3)	Availability at price band 6
BANDAVAIL7	NUMBER(8,3)	Availability at price band 7
BANDAVAIL8	NUMBER(8,3)	Availability at price band 8
BANDAVAIL9	NUMBER(8,3)	Availability at price band 9
BANDAVAIL10	NUMBER(8,3)	Availability at price band 10
PASAAVAILABILITY	NUMBER(8,3)	Allows for Energy bids, being the physical plant capability including any capability potentially available within 24 hours

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4.6 Table: MNSP_BIDOFFERPERIOD

Name MNSP_BIDOFFERPERIOD

Comment MNSP_BIDOFFERPERIOD shows availability for 5-minute periods for a specific

Bid and LinkID for the given Trading Date and period.

MNSP_BIDOFFERPERIOD is a child to MNSP_DAYOFFER and links to

BIDOFFERFILETRK for 5MS Bids.

4.6.1 Primary Key Columns

Name

LINKID

OFFERDATETIME

PERIODID

TRADINGDATE

4.6.2 Content

Name	Data Type	Mandat ory	Comment
LINKID	VARCHAR2(20)	X	Identifier for each of the two MNSP Interconnector Links. Each link pertains to the direction from and to.
TRADINGDATE	DATE	Х	The trading date this bid is for
OFFERDATETIME	TIMESTAMP(3)	Х	Time this bid was processed and loaded
PERIODID	NUMBER(3,0)	X	Period ID, 1 to 288
MAXAVAIL	NUMBER(8,3)		Maximum planned availability MW
FIXEDLOAD	NUMBER(8,3)		Fixed unit output, in MW. A value of NULL means no fixed load so the unit is dispatched according to bid and the market.
RAMPUPRATE	NUMBER(6)		Ramp rate (MW / min) in the positive direction of flow for this MNSP link for this half-hour period
BANDAVAIL1	NUMBER(8,3)		Availability at price band 1

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BANDAVAIL2	NUMBER(8,3)	Availability at price band 2
BANDAVAIL3	NUMBER(8,3)	Availability at price band 3
BANDAVAIL4	NUMBER(8,3)	Availability at price band 4
BANDAVAIL5	NUMBER(8,3)	Availability at price band 5
BANDAVAIL6	NUMBER(8,3)	Availability at price band 6
BANDAVAIL7	NUMBER(8,3)	Availability at price band 7
BANDAVAIL8	NUMBER(8,3)	Availability at price band 8
BANDAVAIL9	NUMBER(8,3)	Availability at price band 9
BANDAVAIL10	NUMBER(8,3)	Availability at price band 10
PASAAVAILABILITY	NUMBER(8,3)	Allows for Energy bids, being the physical plant capability including any capability potentially available within 24 hours.

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4.7 Table: MNSP DAYOFFER

Name MNSP_DAYOFFER

Comment MNSP_DAYOFFER updates as bids are processed. All bids are available as part of

next day market data. MNSP_DAYOFFER is the parent table to

MNSP_BIDOFFERPERIOD, and joins to BIDOFFERFILETRK for 5MS Bids.

4.7.1 Description

MNSP_DAYOFFER shows own (confidential) data updates as bids are processed. All bids are available as part of next day market data.

Volume

4, 000 per year

4.7.2 Notes

Name Comment Value

Visibility Data in this table is: Private; Public Next-Day

4.7.3 Primary Key Columns

Name

LINKID

OFFERDATE

PARTICIPANTID

SETTLEMENTDATE

VERSIONNO

4.7.4 Index Columns

Name

LASTCHANGED

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4.7.5 Content

Name	Data Type	Mandat ory	Comment
SETTLEMENTDATE	DATE	Х	Market Date from which bid is active
OFFERDATE	TIMESTAMP(3)	Х	Time this bid was processed and loaded
VERSIONNO	NUMBER(3,0)	X	Version of data for other key data - a higher version for same key data will take precedence
PARTICIPANTID	VARCHAR2(10)	Х	Participant Identifier
LINKID	VARCHAR2(10)	Х	Identifier for each of the two MNSP Interconnector Links. Each link pertains to the direction from and to.
ENTRYTYPE	VARCHAR2(20)		Bid type. Either Rebid or Daily
REBIDEXPLANATION	VARCHAR2(500)		Explanation for all rebids and inflexibilities
PRICEBAND1	NUMBER(9,2)		Price for Availability Band 1
PRICEBAND2	NUMBER(9,2)		Price for Availability Band 2
PRICEBAND3	NUMBER(9,2)		Price for Availability Band 3
PRICEBAND4	NUMBER(9,2)		Price for Availability Band 4
PRICEBAND5	NUMBER(9,2)		Price for Availability Band 5
PRICEBAND6	NUMBER(9,2)		Price for Availability Band 6
PRICEBAND7	NUMBER(9,2)		Price for Availability Band 7
PRICEBAND8	NUMBER(9,2)		Price for Availability Band 8
PRICEBAND9	NUMBER(9,2)		Price for Availability Band 9
PRICEBAND10	NUMBER(9,2)		Price for Availability Band 10
LASTCHANGED	DATE		Last date and time record changed
MR_FACTOR	NUMBER(16,6)		Mandatory Restriction Offer Factor
REBID_EVENT_TIME	VARCHAR2(20)		The time of the event(s) or other occurrence(s) cited/adduced as the reason for the rebid. Required for rebids, not required for fixed load or low ramp rates. Expected in the format: HH:MM:SS e.g. 20:11:00

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REBID_AWARE_TIME	VARCHAR2(20)	Intended to support the Rebidding and Technical Parameters Guideline. The time at which the participant became aware of the event(s) / occurrence(s) that prompted the rebid. Not validated by AEMO
REBID_DECISION_TIME	VARCHAR2(20)	Intended to support the Rebidding and Technical Parameters Guideline. The time at which the participant made the decision to rebid. Not validated by AEMO
REBID_CATEGORY	VARCHAR2(1)	Intended to support the Rebidding and Technical Parameters Guideline. A provided rebid category. Not validated by AEMO
REFERENCE_ID	VARCHAR2(100)	A participants unique Reference Id

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5 Package: BILLING_RUN

Name BILLING_RUN

Comment Results from a published Billing Run. The settlement data and billing run

data are updated daily between 6am and 8am for AEMO's prudential processes. In a normal week, AEMO publishes one PRELIM, one FINAL

and two REVISION runs in addition to the daily runs.

Each billing run is uniquely identified by contract year, week no and bill run

no.

5.1 List of tables

Name	Comment
BILLINGCPDATA	BILLINGCPDATA shows energy quantity and \$ value purchased per participant connection point.
BILLRESERVETRADERPAYMENT	Details of the RERT Usage and Availability Payments made to the participant.
BILLRESERVETRADERRECOVERY	Provides details of the RERT Recovery Amount for the Market Customers.

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5.2 Diagram: Entities: Billing Run



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5.3 Table: BILLINGCPDATA

Name BILLINGCPDATA

Comment BILLINGCPDATA shows energy quantity and \$ value purchased per participant

connection point.

5.3.1 Description

BILLINGCPDATA data is confidential to relevant participant.

Source

Populated by the posting of a billing run, being several times each week.

Volume

The number of records depends on the number of Transmission ConnectionPointIDs a participant may use to purchase energy. An indicative maximum is approximately 150 records per billrunno, or about 1,500 records inserted per week.

5.3.2 Notes

Name Comment Value

Visibility Data in this table is: Private

5.3.3 Primary Key Columns

Name

BILLRUNNO

CONNECTIONPOINTID

CONTRACTYEAR

MDA

PARTICIPANTID

WEEKNO

5.3.4 Index Columns

Name

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LASTCHANGED

5.3.5 Index Columns

Name

PARTICIPANTID

5.3.6 Content

		Т	T
Name	Data Type	Mandat ory	Comment
CONTRACTYEAR	NUMBER(4,0)	Х	AEMO Contract Year number starting in week containing 1st January
WEEKNO	NUMBER(3,0)	Х	Week no within the contract year. Week no 1 is the week containing 1st January
BILLRUNNO	NUMBER(3,0)	Х	Unique run no within a given contract year and week no
PARTICIPANTID	VARCHAR2(10)	X	Unique participant identifier
CONNECTIONPOINTID	VARCHAR2(10)	Х	Unique connection point identifier
AGGREGATEENERGY	NUMBER(16,6)		Aggregate energy purchased/sold by customer, in MWh, plus UFEA. When GS commences, this includes the UFEA amount in the settlement runs.
PURCHASES	NUMBER(16,6)		Value of energy purchased/sold by customer, in \$. Financial value of energy transactions for the Market Customer and FRMP and TNI in the Billing run.When GS commences, this includes the UFEA amount in the settlement runs.
LASTCHANGED	DATE		Last date and time record changed
MDA	VARCHAR2(10)	Х	relevant MDA for this connection point.
AFE	NUMBER(18,8)		Adjusted Gross Energy for this Market Customer FRMP and TNI in the Billing run, excluding any UFEA component.
DME	NUMBER(18,8)		Sum of ME- for all NMIs at this Market Customer FRMP and TNI in the Billing run.

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UFEA	NUMBER(18,8)	Share of UFE allocated to this FRMP and TNI in the Billing run.
AGE	NUMBER(18,8)	Adjusted Gross Energy for this Market Customer FRMP and TNI in the trading interval. This will include the UFEA value once financial settlement of UFE commences with GS.

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5.4 Table: BILLRESERVETRADERPAYMENT

Name BILLRESERVETRADERPAYMENT

Comment Details of the RERT Usage and Availability Payments made to the participant.

5.4.1 Primary Key Columns

Name

BILLRUNNO

CONTRACTID

CONTRACTYEAR

PAYMENT_ID

WEEKNO

5.4.2 Content

Name	Data Type	Mandat ory	Comment
CONTRACTYEAR	NUMBER(4,0)	Х	Billing contract year
WEEKNO	NUMBER(3,0)	Х	Billing week number
BILLRUNNO	NUMBER(3,0)	Х	Billing posted run number
PARTICIPANTID	VARCHAR2(20)		Participant identifier.
CONTRACTID	VARCHAR2(20)	Х	RERT payment contract ID
PAYMENT_ID	NUMBER(3,0)	Х	RERT payment number
PAYMENT_TYPE	VARCHAR2(40)		Description for the reserve trader contract payment amount.
PAYMENT_AMOUNT	NUMBER(18,8)		RERT payment amount for the payment type

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5.5 Table: BILLRESERVETRADERRECOVERY

Name BILLRESERVETRADERRECOVERY

Comment Provides details of the RERT Recovery Amount for the Market Customers.

5.5.1 Primary Key Columns

Name

BILLRUNNO

CONTRACTYEAR

PARTICIPANTID

PAYMENT_ID

PUBLICATION_ID

REGIONID

WEEKNO

5.5.2 Content

Name	Data Type	Mandat ory	Comment
CONTRACTYEAR	NUMBER(4,0)	Х	Billing contract year
WEEKNO	NUMBER(3,0)	Х	Billing week number
BILLRUNNO	NUMBER(3,0)	X	Billing posted run number
PUBLICATION_ID	VARCHAR2(40)	Х	Unique Publication Identifier for RERT Payment
PAYMENT_ID	NUMBER(3,0)	Х	RERT payment number
PAYMENT_AMOUNT	NUMBER(18,8)		RERT payment amount
PARTICIPANTID	VARCHAR2(20)	Х	Participant identifier.
REGIONID	VARCHAR2(20)	Х	Region from which the amount is recovered
PARTICIPANT_DEMAND	NUMBER(18,8)		Participant Demand Value used for RERT

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		Recovery
REGION_DEMAND	NUMBER(18,8)	Region Demand Value used for RERT Recovery
ELIGIBILITY_START_INTERVA	DATE	Starting Period of RERT Recovery for Usage Payments
ELIGIBILITY_END_INTERVAL	DATE	Ending Period of RERT Recovery for Usage Payments
RECOVERY_AMOUNT	NUMBER(18,8)	Recovery Amount applicable for each Market Customer

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6 Package: DEMAND_FORECASTS

Name DEMAND_FORECASTS

Comment Regional Demand Forecasts and Intermittent Generation forecasts.

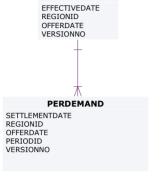
6.1 List of tables

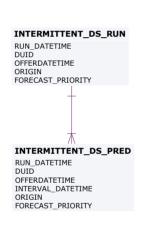
Name	Comment
DEMANDOPERATIONALACTUAL	Shows Actual Operational Demand for a particular date time interval.

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6.2 Diagram: Entities: Demand Forecasts

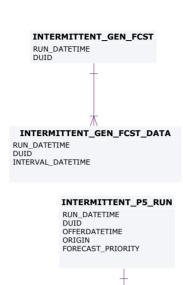
RESDEMANDTRK EFFECTIVEDATE REGIONID OFFERDATE VERSIONNO PERDEMAND SETTLEMENTDATE REGIONID OFFERDATE PERIODID VERSIONNO







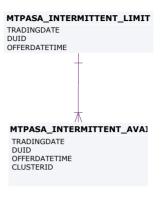
ROOFTOP_PV_ACTUAL INTERVAL_DATETIME REGIONID



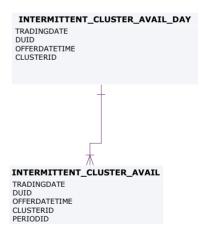




ROOFTOP_PV_FORECAST VERSION_DATETIME REGIONID INTERVAL_DATETIME







6.3 Table: DEMANDOPERATIONALACTUAL

Name DEMANDOPERATIONALACTUAL

Comment Shows Actual Operational Demand for a particular date time interval.

6.3.1 Notes

Name Comment Value

Visibility Data in this table is: Public

6.3.2 Primary Key Columns

Name

INTERVAL_DATETIME

REGIONID

6.3.3 Index Columns

Name

INTERVAL_DATETIME

REGIONID

6.3.4 Content

Name	Data Type	Mandat ory	Comment
INTERVAL_DATETIME	date	Х	Date time interval for operational demand value
REGIONID	Varchar2(20)	Х	Region identifier
OPERATIONAL_DEMAND	number(10,0)		Operational demand value
LASTCHANGED	date		Last date and time record changed
OPERATIONAL_DEMAND_ADJ USTMENT	NUMBER(10,0)		Adjustment value containing the estimated amount of activated RERT and

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	involuntary load shedding that occurred as a result of a NER 4.8.9 instruction for
	load shedding from AEMO.

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7 Package: DISPATCH

Name DISPATCH

Comment Results from a published Dispatch Run

7.1 List of tables

Name	Comment
DISPATCH_MNSPBIDTRK	DISPATCH_MNSPBIDTRK shows the MNSP bid tracking, including the bid version used in each dispatch run for each MNSP Interconnector Link. The table identifies which bids from MNSP_DAYOFFER and MNSP_BIDOFFERPERIOD were applied.
DISPATCHOFFERTRK	DISPATCHOFFERTRK is the energy and ancillary service bid tracking table for the Dispatch process. The table identifies which bids from BIDDAYOFFER and BIDOFFERPERIOD were applied for a given unit and bid type for each dispatch interval.

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7.2 Diagram: Entities: Dispatch

DISPATCH_CONSTRAINT_FCAS_OCD

SETTLEMENTDATE RUNNO INTERVENTION CONSTRAINTID VERSIONNO

DISPATCHOFFERTRK

SETTLEMENTDATE DUID BIDTYPE

DISPATCH_MR_SCHEDULE_TRK

SETTLEMENTDATE REGIONID

NEGATIVE RESIDUE

SETTLEMENTDATE
NRM_DATETIME
DIRECTIONAL_INTERCONNECTORID

INTERMITTENT_FORECAST_TRK

SETTLEMENTDATE DUID

DISPATCH_UNIT_SCADA

SETTLEMENTDATE

DISPATCHBLOCKEDCONSTRAINT

SETTLEMENTDATE RUNNO CONSTRAINTID

DISPATCH_INTERCONNECTION

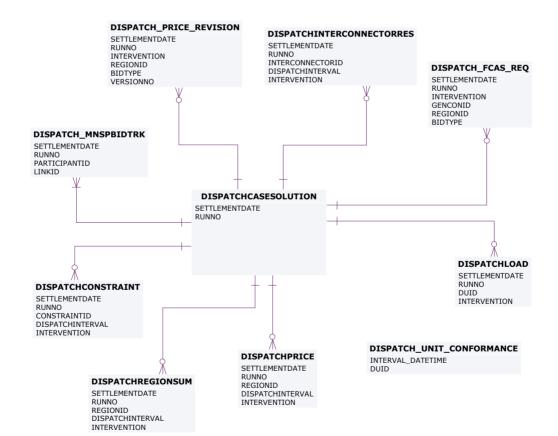
SETTLEMENTDATE RUNNO INTERVENTION FROM_REGIONID TO_REGIONID

CONSTRAINTRELAXATION_OCD

SETTLEMENTDATE RUNNO CONSTRAINTID VERSIONNO

DISPATCH_LOCAL_PRICE

SETTLEMENTDATE



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7.3 Table: DISPATCH_MNSPBIDTRK

Name DISPATCH_MNSPBIDTRK

Comment DISPATCH MNSPBIDTRK shows the MNSP bid tracking, including the bid

version used in each dispatch run for each MNSP Interconnector Link. The table identifies which bids from MNSP_DAYOFFER and MNSP_BIDOFFERPERIOD

were applied.

7.3.1 Description

DISPATCH_MNSPBIDTRK shows own details for participant as they occur, with all details until close of business yesterday being available to all participants after end of day.

Source

DISPATCH_MNSPBIDTRK potentially updates every 5 minutes.

Volume

220, 000 per year

7.3.2 Notes

Name Comment Value

Visibility Data in this table is: Private; Public Next-Day

7.3.3 Primary Key Columns

Name

LINKID

PARTICIPANTID

RUNNO

SETTLEMENTDATE

7.3.4 Index Columns

Name

LASTCHANGED

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7.3.5 Content

Name	Data Type	Mandat ory	Comment
SETTLEMENTDATE	DATE	Х	Market date starting at 04:05
RUNNO	NUMBER(3,0)	X	Dispatch run no; always 1
PARTICIPANTID	VARCHAR2(10)	X	Participant that owns unit during effective record period
LINKID	VARCHAR2(10)	Х	Identifier for each of the two MNSP Interconnector Links. Each link pertains to the direction from and to.
OFFERSETTLEMENTDATE	DATE		Offer date for bid
OFFEREFFECTIVEDATE	TIMESTAMP(3)		Time this bid was processed and loaded
OFFERVERSIONNO	NUMBER(3,0)		VersionNo of the bid/offer used
LASTCHANGED	DATE		Record creation timestamp

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7.4 Table: DISPATCHOFFERTRK

Name DISPATCHOFFERTRK

Comment DISPATCHOFFERTRK is the energy and ancillary service bid tracking table for

the Dispatch process. The table identifies which bids from BIDDAYOFFER and BIDOFFERPERIOD were applied for a given unit and bid type for each dispatch

interval.

7.4.1 Description

DISPATCHOFFERTRK data is confidential to each participant until the next trading day, when the data is public to all participants.

Source

DISPATCHOFFERTRK updates every 5 minutes.

Volume

Approximately 250,000 records per day.

7.4.2 Notes

Name Comment Value

Visibility Data in this table is: Private; Public Next-Day

7.4.3 Primary Key Columns

Name

BIDTYPE

DUID

SETTLEMENTDATE

7.4.4 Index Columns

Name

LASTCHANGED

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7.4.5 Index Columns

Name

DUID

LASTCHANGED

7.4.6 Content

Name	Data Type	Mandat ory	Comment
SETTLEMENTDATE	DATE	X	Date and time of the dispatch interval (e.g. five minute dispatch interval ending 28/09/2000 16:35)
DUID	VARCHAR2(10)	Х	Dispatchable unit identifier
BIDTYPE	VARCHAR2(10)	X	Bid type Identifier - the ancillary service to which the bid applies
BIDSETTLEMENTDATE	DATE		Settlement date of bid applied
BIDOFFERDATE	TIMESTAMP(3)		Time this bid was processed and loaded
LASTCHANGED	DATE		Last date and time record changed

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8 Package: MTPASA

MTPASA Name

Results from a published Medium Term PASA Run and region-aggregate offered PASA Availability of scheduled generators Comment

8.1 List of tables

Name	Comment
MTPASA_DUIDAVAILABILITY	Offered PASA Availability of the scheduled generator DUID for each day over the Medium Term PASA period. The data in this table is input data to the MT PASA process it is not part of the MTPASA solution. The availability does not reflect any energy limitations in the MT PASA offers
MTPASA_REGIONAVAILABILITY	Stores the Region-aggregate offered PASA Availability of scheduled generators for each day over the Medium Term PASA period. The data in this table is an aggregate of input data to the MT PASA process it is not part of the MTPASA solution. The aggregate availability does not reflect any energy limitations in the MT PASA offers.
MTPASA_REGIONRESULT	Region results for interval of max demand per day.

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8.2 Diagram: Entities: MT PASA

MTPASA_REGIONAVAIL_TRK PUBLISH_DATETIME PUBLISH_DATETIME PUBLISH_DATETIME DAY REGIONID

MTPASA_CONSTRAINTRESULT

RUN_DATETIME RUN_NO RUNTYPE DEMAND_POE_TYPE DAY CONSTRAINTID

MTPASA_INTERCONNECTORRESULT

RUN_DATETIME RUN_NO RUNTYPE DEMAND_POE_TYPE DAY INTERCONNECTORID

MTPASA_CONSTRAINTSUMMARY

RUN_DATETIME RUN_NO RUNTYPE DEMAND_POE_TYPE DAY CONSTRAINTID AGGREGATION_PERIOD

MTPASA_CASERESULT

RUN_DATETIME RUN_NO

MTPASA_LOLPRESULT

RUN_DATETIME RUN_NO RUNTYPE DAY REGIONID

MTPASA_REGIONITERATION

RUN_DATETIME
RUN_NO
RUNTYPE
DEMAND_POE_TYPE
AGGREGATION_PERIOD
PERIOD_ENDING
REGIONID
USE_ITERATION_ID

MTPASA_REGIONRESULT

RUN_DATETIME RUN_NO RUNTYPE DEMAND_POE_TYPE DAY REGIONID

MTPASA_REGIONSUMMARY

RUN_DATETIME RUN_NO RUNTYPE DEMAND_POE_TYPE AGGREGATION_PERIOD PEGIOD_ENDING REGIONID

MTPASA_DUIDAVAILABILITY

PUBLISH_DATETIME DAY REGIONID DUID

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8.3 Table: MTPASA_DUIDAVAILABILITY

Name MTPASA_DUIDAVAILABILITY

Comment Offered PASA Availability of the scheduled generator DUID for each day over the

Medium Term PASA period. The data in this table is input data to the MT PASA process it is not part of the MTPASA solution. The availability does not reflect any

energy limitations in the MT PASA offers

8.3.1 Primary Key Columns

Name

DAY

DUID

PUBLISH_DATETIME

REGIONID

8.3.2 Content

Name	Data Type	Mandat ory	Comment
PUBLISH_DATETIME	DATE	Х	Date Time the report was published.
DAY	DATE	X	Date on which the PASA availability of DUID applies.
REGIONID	VARCHAR2(20)	X	NEM Region.
DUID	VARCHAR2(20)	Х	NEM DUID.
PASAAVAILABILITY	NUMBER(12,0)		Offered PASA Availability of Scheduled generator DUID for the day.
LATEST_OFFER_DATETIME	DATE		Date Time of the latest offer used for DUID for this date.
LASTCHANGED	DATE		Last date and time record changed

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8.4 Table: MTPASA REGIONAVAILABILITY

Name MTPASA_REGIONAVAILABILITY

Comment Stores the Region-aggregate offered PASA Availability of scheduled generators for

each day over the Medium Term PASA period. The data in this table is an aggregate of input data to the MT PASA process it is not part of the MTPASA solution. The aggregate availability does not reflect any energy limitations in the

MT PASA offers.

8.4.1 Description

MTPASA_REGIONAVAILABILITY is public data.

8.4.2 Notes

Name Comment Value

Visibility Data in this table is: Public

8.4.3 Primary Key Columns

Name

DAY

PUBLISH_DATETIME

REGIONID

8.4.4 Content

Name	Data Type	Mandat ory	Comment
PUBLISH_DATETIME	DATE	Х	Date Time the report was published.
DAY	DATE	Х	Date on which the aggregation applies.
REGIONID	VARCHAR2(20)	Х	NEM Region.
PASAAVAILABILITY_SCHEDU LED	NUMBER(12,0)		Aggregate of the offered PASA Availability for all Scheduled generators in this region.
LATEST_OFFER_DATETIME	DATE		Date Time of the latest offer used in the aggregation for this region and date.

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ENERGYUNCONSTRAINEDCA PACITY	NUMBER(12,0)	Region energy unconstrained MW capacity
ENERGYCONSTRAINEDCAPA CITY	NUMBER(12,0)	Region energy constrained MW capacity
NONSCHEDULEDGENERATIO N	NUMBER(12,2)	Allowance made for non-scheduled generation in the demand forecast (MW)
DEMAND10	NUMBER(12,2)	10% probability demand (ex non-scheduled demand)
DEMAND50	NUMBER(12,2)	50% probability demand (ex non-scheduled demand)
ENERGYREQDEMAND10	NUMBER(12,2)	Total weekly operational as generated consumption (POE 10)
ENERGYREQDEMAND50	NUMBER(12,2)	Total weekly operational as generated consumption (POE 50)
LASTCHANGED	DATE	Last date and time record changed
DEMAND10MIN	NUMBER(12,2)	Minimum of the Operational Load as Generated (OPGEN) peaks that occur in all ref years for the P10 traces (MW).
DEMAND10MAX	NUMBER(12,2)	Maximum of the Operational Load as Generated (OPGEN) peaks that occur in all ref years for the P10 traces (MW).
DEMAND50MIN	NUMBER(12,2)	Minimum of the Operational Load as Generated (OPGEN) peaks that occur in all ref years for the P50 traces (MW).
DEMAND50MAX	NUMBER(12,2)	Maximum of the Operational Load as Generated (OPGEN) peaks that occur in all ref years for the P50 traces (MW).

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8.5 Table: MTPASA_REGIONRESULT

Name MTPASA_REGIONRESULT

Comment Region results for interval of max demand per day.

8.5.1 Description

MTPASA_REGIONRESULT is public data.

8.5.2 Notes

Name Comment Value

Visibility Data in this table is: Public

8.5.3 Primary Key Columns

Name

DAY

DEMAND_POE_TYPE

REGIONID

RUN_DATETIME

RUN_NO

RUNTYPE

8.5.4 Content

Name	Data Type	Mandat ory	Comment
RUN_DATETIME	DATE	Х	Date processing of the run begins.
RUN_NO	NUMBER(4)	X	Unique run id.
RUNTYPE	VARCHAR2(20)	X	Type of run. Always RELIABILITY
DEMAND_POE_TYPE	VARCHAR2(20)	Х	Demand POE type used. Value is POE10

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DAY	DATE	X	Day this result is for
REGIONID	VARCHAR2(20)	Х	The unique region identifier
PERIODID	NUMBER(3,0)		Half hourly period reported, selected as period of maximum NEM scheduled demand (calculated as maximum of scheduled demands, averaged across iterations and reference years)
DEMAND	NUMBER(12,2)		Demand value from selected half hourly interval (MW)
AGGREGATEINSTALLEDCAP ACITY	NUMBER(12,2)		The total installed capacity of all generation (MW)
NUMBEROFITERATIONS	NUMBER(12,2)		Total number of iterations and reference years performed
USE_NUMBEROFITERATIONS	NUMBER(12,2)		Number of iterations and reference years with unserved energy>0
USE_MAX	NUMBER(12,2)		Maximum unserved energy, across iterations and reference years (MW)
USE_UPPERQUARTILE	NUMBER(12,2)		Upper quartile unserved energy, across iterations and reference years (MW)
USE_MEDIAN	NUMBER(12,2)		Median unserved energy, across iterations and reference years (MW)
USE_LOWERQUARTILE	NUMBER(12,2)		Lower quartile unserved energy, across iterations and reference years (MW)
USE_MIN	NUMBER(12,2)		Minimum unserved energy, across iterations and reference years (MW)
USE_AVERAGE	NUMBER(12,2)		Average unserved energy, across iterations and reference years (MW)
USE_EVENT_AVERAGE	NUMBER(12,2)		Average unserved energy event size, across iterations and reference years (MW)
TOTALSCHEDULEDGEN90	NUMBER(12,2)		The 90th percentile for scheduled generation across iterations and reference years (MW)
TOTALSCHEDULEDGEN50	NUMBER(12,2)		The 50th percentile for scheduled generation across iterations and reference years (MW)
TOTALSCHEDULEDGEN10	NUMBER(12,2)		The 10th percentile for scheduled generation across iterations and

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		reference years (MW)
TOTALINTERMITTENTGEN90	NUMBER(12,2)	The 90th percentile for intermittent generation, across iterations and reference years (MW)
TOTALINTERMITTENTGEN50	NUMBER(12,2)	The 50th percentile for intermittent generation, across iterations and reference years (MW)
TOTALINTERMITTENTGEN10	NUMBER(12,2)	The 10th percentile for intermittent generation, across iterations and reference years (MW)
DEMANDSIDEPARTICIPATION 90	NUMBER(12,2)	The 90th percentile for demand side participation, across iterations and reference years (MW)
DEMANDSIDEPARTICIPATION 50	NUMBER(12,2)	The 50th percentile for demand side participation, across iterations and reference years (MW)
DEMANDSIDEPARTICIPATION 10	NUMBER(12,2)	The 10th percentile for demand side participation, across iterations and reference years (MW)
LASTCHANGED	DATE	Last date and time record changed
TOTALSEMISCHEDULEGEN90	NUMBER(12,2)	The 90% percentile for semi-scheduled generation across iterations and reference years (MW)
TOTALSEMISCHEDULEGEN50	NUMBER(12,2)	The 50% percentile for semi-scheduled generation across iterations and reference years (MW)
TOTALSEMISCHEDULEGEN10	NUMBER(12,2)	The 10% percentile for semi-scheduled generation across iterations and reference years (MW)
TOTALAVAILABLEGENMIN	NUMBER(12,2)	Minimum available capacity, across iterations and reference years (MW).
TOTALAVAILABLEGEN10	NUMBER(12,2)	The 10% percentile for available capacity, across iterations and reference years (MW).
TOTALAVAILABLEGEN50	NUMBER(12,2)	The 50% percentile for available capacity, across iterations and reference years (MW).
TOTALAVAILABLEGEN90	NUMBER(12,2)	The 90% percentile for available capacity, across iterations and reference years (MW).

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TOTALAVAILABLEGENMAX NUMBER(12,2) Maximum available capacity, across iterations and reference years (MW).

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9 Package: P5MIN

Name P5MIN

Comment Results from a published Five-Minute Predispatch Run

Storage options

There are 2 ways to define the P5Min table primary keys (PKs) to define what data is loaded to the database and what data is retained:

Option 1 (default)

Retain all Intervals but discard Intervention Pricing run records where they do not apply and discard Intervention Physical run records where they do not apply. This is the Data Model default and results in the consumption of less storage under Intervention. Data Model updates issued by AEMO target this configuration so participants implementing option 2 must maintain their changes when AEMO releases a new Data Model version.

- P5Min_ConstraintSolution: Run_DateTime, ConstraintId, Interval_DateTime
- P5Min_InterconnectorSoln: Run_DateTime, InterconnectorId, Interval_DateTime
- P5Min_RegionSolution: Run_DateTime, RegionId, Interval_DateTime
- P5Min_UnitSolution: Run_DateTime, DUID, Interval_DateTime

Option 2

Retain both Physical and Pricing data for Intervention runs. If Intervention cases are stored in entirety, you must select the data carefully. The logic is the same as for Dispatch, i.e. Intervention Pricing is always where Intervention = 0 and Physical data is where Intervention = P5Min_CaseSolution.Intervention for the same Run_DateTime.

Doubles the storage of option 1 but ONLY when Intervened cases apply.

- P5Min_ConstraintSolution: Run_DateTime, Intervention, ConstraintId, Interval DateTime
- P5Min_InterconnectorSoln: Run_DateTime, Intervention, InterconnectorId, Interval DateTime
- P5Min_RegionSolution: Run_DateTime, Intervention, RegionId, Interval DateTime
- P5Min_UnitSolution: Run_DateTime, Intervention, DUID, Interval_DateTime

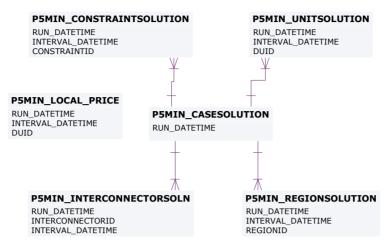
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9.1 List of tables

Name	Comment
P5MIN_INTERSENSITIVITIES	P5MIN Sensitivies for 5MinPD solution. New solution every 5 minutes. Current Scenarios defined in P5MIN_SCENARIODEMANDTRK/P5MIN_SCENARIODEMAND
P5MIN_PRICESENSITIVITIES	Price Sensitivies for 5MinPD solution. New solution every 5 minutes. Current Scenarios defined in P5MIN_SCENARIODEMANDTRK/P5MIN_SCENARIODEMAND
P5MIN_SCENARIODEMAND	The P5Min scenario MW offsets
P5MIN_SCENARIODEMANDTRK	Tracks the 5Min scenario offset updates across time

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9.2 Diagram: Entities: P5MIN



P5MIN_BLOCKEDCONSTRAINT

RUN_DATETIME CONSTRAINTID

P5MIN_SCENARIODEMANDTRK

EFFECTIVEDATE VERSION_DATETIME

P5MIN_INTERSENSITIVITIES

RUN_DATETIME INTERCONNECTORID INTERVAL_DATETIME

P5MIN_PRICESENSITIVITIES

RUN_DATETIME REGIONID INTERVAL_DATETIME

P5MIN_SCENARIODEMAND

EFFECTIVEDATE
VERSION_DATETIME
SCENARIO
REGIONID

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9.3 Table: P5MIN_INTERSENSITIVITIES

Name P5MIN_INTERSENSITIVITIES

Comment P5MIN Sensitivies for 5MinPD solution. New solution every 5 minutes. Current

Scenarios defined in

P5MIN_SCENARIODEMANDTRK/P5MIN_SCENARIODEMAND

9.3.1 Primary Key Columns

Name

INTERCONNECTORID

INTERVAL_DATETIME

RUN_DATETIME

9.3.2 Content

Name	Data Type	Mandat ory	Comment
RUN_DATETIME	DATE	X	Definitive Run from which this solution derives
INTERCONNECTORID	VARCHAR2(20)	X	Interconnector identifier
INTERVAL_DATETIME	DATE	X	The unique identifier for the interval within this study
INTERVENTION	NUMBER(1,0)	х	Flag to indicate if this result set was sourced from the pricing run (INTERVENTION=0) or the physical run (INTERVENTION=1). In the event there is not intervention in the market, both pricing and physical runs correspond to INTERVENTION=0)
INTERVENTION_ACTIVE	NUMBER(1,0)		Flag to indicate if this period has an active intervention constraint: 0= No, 1= Yes
MWFLOW1	NUMBER(15,5)		MW Flow value. Flow1 = MW flow for given Interconnector for Scenario 1
MWFLOW2	NUMBER(15,5)		MW Flow value. Flow2 = MW flow for given Interconnector for Scenario 2

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MWFLOW3	NUMBER(15,5)	MW Flow value. Flow3 = MW flow for given Interconnector for Scenario 3
MWFLOW4	NUMBER(15,5)	MW Flow value. Flow4 = MW flow for given Interconnector for Scenario 4
MWFLOW5	NUMBER(15,5)	MW Flow value. Flow5 = MW flow for given Interconnector for Scenario 5
MWFLOW6	NUMBER(15,5)	MW Flow value. Flow6 = MW flow for given Interconnector for Scenario 6
MWFLOW7	NUMBER(15,5)	MW Flow value. Flow7 = MW flow for given Interconnector for Scenario 7
MWFLOW8	NUMBER(15,5)	MW Flow value. Flow8 = MW flow for given Interconnector for Scenario 8
MWFLOW9	NUMBER(15,5)	MW Flow value. Flow9 = MW flow for given Interconnector for Scenario 9
MWFLOW10	NUMBER(15,5)	MW Flow value. Flow10 = MW flow for given Interconnector for Scenario 10
MWFLOW11	NUMBER(15,5)	MW Flow value. Flow11 = MW flow for given Interconnector for Scenario 11
MWFLOW12	NUMBER(15,5)	MW Flow value. Flow12 = MW flow for given Interconnector for Scenario 12
MWFLOW13	NUMBER(15,5)	MW Flow value. Flow13 = MW flow for given Interconnector for Scenario 13
MWFLOW14	NUMBER(15,5)	MW Flow value. Flow14 = MW flow for given Interconnector for Scenario 14
MWFLOW15	NUMBER(15,5)	MW Flow value. Flow15 = MW flow for given Interconnector for Scenario 15
MWFLOW16	NUMBER(15,5)	MW Flow value. Flow16 = MW flow for given Interconnector for Scenario 16
MWFLOW17	NUMBER(15,5)	MW Flow value. Flow17 = MW flow for given Interconnector for Scenario 17
MWFLOW18	NUMBER(15,5)	MW Flow value. Flow18 = MW flow for given Interconnector for Scenario 18
MWFLOW19	NUMBER(15,5)	MW Flow value. Flow19 = MW flow for given Interconnector for Scenario 19
MWFLOW20	NUMBER(15,5)	MW Flow value. Flow20 = MW flow for given Interconnector for Scenario 20

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MWFLOW21	NUMBER(15,5)	MW Flow value. Flow21 = MW flow for given Interconnector for Scenario 21
MWFLOW22	NUMBER(15,5)	MW Flow value. Flow22 = MW flow for given Interconnector for Scenario 22
MWFLOW23	NUMBER(15,5)	MW Flow value. Flow23 = MW flow for given Interconnector for Scenario 23
MWFLOW24	NUMBER(15,5)	MW Flow value. Flow24 = MW flow for given Interconnector for Scenario 24
MWFLOW25	NUMBER(15,5)	MW Flow value. Flow25 = MW flow for given Interconnector for Scenario 25
MWFLOW26	NUMBER(15,5)	MW Flow value. Flow26 = MW flow for given Interconnector for Scenario 26
MWFLOW27	NUMBER(15,5)	MW Flow value. Flow27 = MW flow for given Interconnector for Scenario 27
MWFLOW28	NUMBER(15,5)	MW Flow value. Flow28 = MW flow for given Interconnector for Scenario 28
MWFLOW29	NUMBER(15,5)	MW Flow value. Flow29 = MW flow for given Interconnector for Scenario 29
MWFLOW30	NUMBER(15,5)	MW Flow value. Flow30 = MW flow for given Interconnector for Scenario 30
MWFLOW31	NUMBER(15,5)	MW Flow value. Flow31 = MW flow for given Interconnector for Scenario 31
MWFLOW32	NUMBER(15,5)	MW Flow value. Flow32 = MW flow for given Interconnector for Scenario 32
MWFLOW33	NUMBER(15,5)	MW Flow value. Flow33 = MW flow for given Interconnector for Scenario 33
MWFLOW34	NUMBER(15,5)	MW Flow value. Flow34 = MW flow for given Interconnector for Scenario 34
MWFLOW35	NUMBER(15,5)	MW Flow value. Flow35 = MW flow for given Interconnector for Scenario 35
MWFLOW36	NUMBER(15,5)	MW Flow value. Flow36 = MW flow for given Interconnector for Scenario 36
MWFLOW37	NUMBER(15,5)	MW Flow value. Flow37 = MW flow for given Interconnector for Scenario 37
MWFLOW38	NUMBER(15,5)	MW Flow value. Flow38 = MW flow for given Interconnector for Scenario 38

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MWFLOW39	NUMBER(15,5)	MW Flow value. Flow39 = MW flow for given Interconnector for Scenario 39
MWFLOW40	NUMBER(15,5)	MW Flow value. Flow40 = MW flow for given Interconnector for Scenario 40
MWFLOW41	NUMBER(15,5)	MW Flow value. Flow41 = MW flow for given Interconnector for Scenario 41
MWFLOW42	NUMBER(15,5)	MW Flow value. Flow42 = MW flow for given Interconnector for Scenario 42
MWFLOW43	NUMBER(15,5)	MW Flow value. Flow43 = MW flow for given Interconnector for Scenario 43
LASTCHANGED	DATE	Timestamp when this record was last modified

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9.4 Table: P5MIN_PRICESENSITIVITIES

Name P5MIN_PRICESENSITIVITIES

Comment Price Sensitivies for 5MinPD solution. New solution every 5 minutes. Current

Scenarios defined in

P5MIN_SCENARIODEMANDTRK/P5MIN_SCENARIODEMAND

9.4.1 Primary Key Columns

Name

INTERVAL_DATETIME

REGIONID

RUN_DATETIME

9.4.2 Content

Name	Data Type	Mandat ory	Comment
RUN_DATETIME	DATE	Х	Definitive Run from which this solution derives
REGIONID	VARCHAR2(20)	Х	Region
INTERVAL_DATETIME	DATE	X	The unique identifier for the interval within this study
INTERVENTION	NUMBER(1,0)	X	Whether an Intervention constraint was defined in this run
INTERVENTION_ACTIVE	NUMBER(1,0)		Flag to indicate if this period has an active intervention constraint: 0= No, 1= Yes
RRP1	NUMBER(15,5)		Regional Reference price for scenario 1
RRP2	NUMBER(15,5)		Regional Reference price for scenario 2
RRP3	NUMBER(15,5)		Regional Reference price for scenario 3
RRP4	NUMBER(15,5)		Regional Reference price for scenario 4
RRP5	NUMBER(15,5)		Regional Reference price for scenario 5
RRP6	NUMBER(15,5)		Regional Reference price for scenario 6

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RRP7 NUMBER(15,5) Regional Reference price for scenario 7 RRP8 NUMBER(15,5) Regional Reference price for scenario 8 RRP9 NUMBER(15,5) Regional Reference price for scenario 9 RRP10 NUMBER(15,5) Regional Reference price for scenario 10 RRP11 NUMBER(15,5) Regional Reference price for scenario 11 RRP12 NUMBER(15,5) Regional Reference price for scenario 12 RRP13 NUMBER(15,5) Regional Reference price for scenario 13 RRP14 NUMBER(15,5) Regional Reference price for scenario 14 RRP15 NUMBER(15,5) Regional Reference price for scenario 15 RRP16 NUMBER(15,5) Regional Reference price for scenario 15 RRP17 NUMBER(15,5) Regional Reference price for scenario 17 RRP18 NUMBER(15,5) Regional Reference price for scenario 18 RRP19 NUMBER(15,5) Regional Reference price for scenario 20 RRP20 NUMBER(15,5) Regional Reference price for scenario 21 RRP21 NUMBER(15,5) Regional Reference price for scenario 22 RRP22 NUMBER(15,5) Regional Reference price f		<u> </u>	
RRP9 NUMBER(15,5) Regional Reference price for scenario 9 RRP10 NUMBER(15,5) Regional Reference price for scenario 10 RRP11 NUMBER(15,5) Regional Reference price for scenario 11 RRP12 NUMBER(15,5) Regional Reference price for scenario 12 RRP13 NUMBER(15,5) Regional Reference price for scenario 13 RRP14 NUMBER(15,5) Regional Reference price for scenario 14 RRP15 NUMBER(15,5) Regional Reference price for scenario 14 RRP16 NUMBER(15,5) Regional Reference price for scenario 15 RRP17 NUMBER(15,5) Regional Reference price for scenario 16 RRP17 NUMBER(15,5) Regional Reference price for scenario 17 RRP18 NUMBER(15,5) Regional Reference price for scenario 17 RRP19 NUMBER(15,5) Regional Reference price for scenario 19 RRP20 NUMBER(15,5) Regional Reference price for scenario 20 RRP21 NUMBER(15,5) Regional Reference price for scenario 21 RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 24 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 30	RRP7	NUMBER(15,5)	Regional Reference price for scenario 7
RRP10 NUMBER(15,5) Regional Reference price for scenario 10 RRP11 NUMBER(15,5) Regional Reference price for scenario 11 RRP12 NUMBER(15,5) Regional Reference price for scenario 12 RRP13 NUMBER(15,5) Regional Reference price for scenario 13 RRP14 NUMBER(15,5) Regional Reference price for scenario 13 RRP15 NUMBER(15,5) Regional Reference price for scenario 14 RRP16 NUMBER(15,5) Regional Reference price for scenario 15 RRP16 NUMBER(15,5) Regional Reference price for scenario 16 RRP17 NUMBER(15,5) Regional Reference price for scenario 17 RRP18 NUMBER(15,5) Regional Reference price for scenario 17 RRP19 NUMBER(15,5) Regional Reference price for scenario 18 RRP19 NUMBER(15,5) Regional Reference price for scenario 19 RRP20 NUMBER(15,5) Regional Reference price for scenario 20 RRP21 NUMBER(15,5) Regional Reference price for scenario 21 RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 30	RRP8	NUMBER(15,5)	Regional Reference price for scenario 8
RRP11 NUMBER(15,5) Regional Reference price for scenario 11 RRP12 NUMBER(15,5) Regional Reference price for scenario 12 RRP13 NUMBER(15,5) Regional Reference price for scenario 13 RRP14 NUMBER(15,5) Regional Reference price for scenario 14 RRP15 NUMBER(15,5) Regional Reference price for scenario 14 RRP16 NUMBER(15,5) Regional Reference price for scenario 15 RRP16 NUMBER(15,5) Regional Reference price for scenario 16 RRP17 NUMBER(15,5) Regional Reference price for scenario 17 RRP18 NUMBER(15,5) Regional Reference price for scenario 18 RRP19 NUMBER(15,5) Regional Reference price for scenario 19 RRP20 NUMBER(15,5) Regional Reference price for scenario 19 RRP21 NUMBER(15,5) Regional Reference price for scenario 20 RRP21 NUMBER(15,5) Regional Reference price for scenario 21 RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 30	RRP9	NUMBER(15,5)	Regional Reference price for scenario 9
RRP12 NUMBER(15,5) Regional Reference price for scenario 12 RRP13 NUMBER(15,5) Regional Reference price for scenario 13 RRP14 NUMBER(15,5) Regional Reference price for scenario 14 RRP15 NUMBER(15,5) Regional Reference price for scenario 15 RRP16 NUMBER(15,5) Regional Reference price for scenario 16 RRP17 NUMBER(15,5) Regional Reference price for scenario 17 RRP18 NUMBER(15,5) Regional Reference price for scenario 18 RRP19 NUMBER(15,5) Regional Reference price for scenario 19 RRP20 NUMBER(15,5) Regional Reference price for scenario 20 RRP21 NUMBER(15,5) Regional Reference price for scenario 21 RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference p	RRP10	NUMBER(15,5)	Regional Reference price for scenario 10
RRP13 NUMBER(15,5) Regional Reference price for scenario 13 RRP14 NUMBER(15,5) Regional Reference price for scenario 14 RRP15 NUMBER(15,5) Regional Reference price for scenario 15 RRP16 NUMBER(15,5) Regional Reference price for scenario 16 RRP17 NUMBER(15,5) Regional Reference price for scenario 17 RRP18 NUMBER(15,5) Regional Reference price for scenario 17 RRP19 NUMBER(15,5) Regional Reference price for scenario 18 RRP10 NUMBER(15,5) Regional Reference price for scenario 19 RRP20 NUMBER(15,5) Regional Reference price for scenario 20 RRP21 NUMBER(15,5) Regional Reference price for scenario 21 RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 30	RRP11	NUMBER(15,5)	Regional Reference price for scenario 11
RRP14 NUMBER(15,5) Regional Reference price for scenario 14 RRP15 NUMBER(15,5) Regional Reference price for scenario 15 RRP16 NUMBER(15,5) Regional Reference price for scenario 16 RRP17 NUMBER(15,5) Regional Reference price for scenario 17 RRP18 NUMBER(15,5) Regional Reference price for scenario 18 RRP19 NUMBER(15,5) Regional Reference price for scenario 19 RRP20 NUMBER(15,5) Regional Reference price for scenario 20 RRP21 NUMBER(15,5) Regional Reference price for scenario 21 RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 24 RRP26 NUMBER(15,5) Regional Reference price for scenario 25 RRP27 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 27 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP12	NUMBER(15,5)	Regional Reference price for scenario 12
RRP15 NUMBER(15,5) Regional Reference price for scenario 15 RRP16 NUMBER(15,5) Regional Reference price for scenario 16 RRP17 NUMBER(15,5) Regional Reference price for scenario 17 RRP18 NUMBER(15,5) Regional Reference price for scenario 18 RRP19 NUMBER(15,5) Regional Reference price for scenario 19 RRP20 NUMBER(15,5) Regional Reference price for scenario 20 RRP21 NUMBER(15,5) Regional Reference price for scenario 21 RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 24 RRP26 NUMBER(15,5) Regional Reference price for scenario 25 RRP27 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 30	RRP13	NUMBER(15,5)	Regional Reference price for scenario 13
RRP16 NUMBER(15,5) Regional Reference price for scenario 16 RRP17 NUMBER(15,5) Regional Reference price for scenario 17 RRP18 NUMBER(15,5) Regional Reference price for scenario 18 RRP19 NUMBER(15,5) Regional Reference price for scenario 19 RRP20 NUMBER(15,5) Regional Reference price for scenario 20 RRP21 NUMBER(15,5) Regional Reference price for scenario 21 RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 26 RRP28 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 30	RRP14	NUMBER(15,5)	Regional Reference price for scenario 14
RRP17 NUMBER(15,5) Regional Reference price for scenario 17 RRP18 NUMBER(15,5) Regional Reference price for scenario 18 RRP19 NUMBER(15,5) Regional Reference price for scenario 19 RRP20 NUMBER(15,5) Regional Reference price for scenario 20 RRP21 NUMBER(15,5) Regional Reference price for scenario 21 RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 23 RRP25 NUMBER(15,5) Regional Reference price for scenario 24 RRP26 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP15	NUMBER(15,5)	Regional Reference price for scenario 15
RRP18 NUMBER(15,5) Regional Reference price for scenario 18 RRP19 NUMBER(15,5) Regional Reference price for scenario 19 RRP20 NUMBER(15,5) Regional Reference price for scenario 20 RRP21 NUMBER(15,5) Regional Reference price for scenario 21 RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 24 RRP26 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP16	NUMBER(15,5)	Regional Reference price for scenario 16
RRP19 NUMBER(15,5) Regional Reference price for scenario 19 RRP20 NUMBER(15,5) Regional Reference price for scenario 20 RRP21 NUMBER(15,5) Regional Reference price for scenario 21 RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 24 RRP26 NUMBER(15,5) Regional Reference price for scenario 25 RRP27 NUMBER(15,5) Regional Reference price for scenario 26 RRP28 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP17	NUMBER(15,5)	Regional Reference price for scenario 17
RRP20 NUMBER(15,5) Regional Reference price for scenario 20 RRP21 NUMBER(15,5) Regional Reference price for scenario 21 RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP18	NUMBER(15,5)	Regional Reference price for scenario 18
RRP21 NUMBER(15,5) Regional Reference price for scenario 21 RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP19	NUMBER(15,5)	Regional Reference price for scenario 19
RRP22 NUMBER(15,5) Regional Reference price for scenario 22 RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP20	NUMBER(15,5)	Regional Reference price for scenario 20
RRP23 NUMBER(15,5) Regional Reference price for scenario 23 RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP21	NUMBER(15,5)	Regional Reference price for scenario 21
RRP24 NUMBER(15,5) Regional Reference price for scenario 24 RRP25 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP22	NUMBER(15,5)	Regional Reference price for scenario 22
RRP25 NUMBER(15,5) Regional Reference price for scenario 25 RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP23	NUMBER(15,5)	Regional Reference price for scenario 23
RRP26 NUMBER(15,5) Regional Reference price for scenario 26 RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP24	NUMBER(15,5)	Regional Reference price for scenario 24
RRP27 NUMBER(15,5) Regional Reference price for scenario 27 RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP25	NUMBER(15,5)	Regional Reference price for scenario 25
RRP28 NUMBER(15,5) Regional Reference price for scenario 28 RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP26	NUMBER(15,5)	Regional Reference price for scenario 26
RRP29 NUMBER(15,5) Regional Reference price for scenario 29 RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP27	NUMBER(15,5)	Regional Reference price for scenario 27
RRP30 NUMBER(15,5) Regional Reference price for scenario 30 RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP28	NUMBER(15,5)	Regional Reference price for scenario 28
RRP31 NUMBER(15,5) Regional Reference price for scenario 31	RRP29	NUMBER(15,5)	Regional Reference price for scenario 29
	RRP30	NUMBER(15,5)	Regional Reference price for scenario 30
RRP32 NUMBER(15,5) Regional Reference price for scenario 32	RRP31	NUMBER(15,5)	Regional Reference price for scenario 31
	RRP32	NUMBER(15,5)	Regional Reference price for scenario 32

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RRP33	NUMBER(15,5)	Regional Reference price for scenario 33
RRP34	NUMBER(15,5)	Regional Reference price for scenario 34
RRP35	NUMBER(15,5)	Regional Reference price for scenario 35
RRP36	NUMBER(15,5)	Regional Reference price for scenario 36
RRP37	NUMBER(15,5)	Regional Reference price for scenario 37
RRP38	NUMBER(15,5)	Regional Reference price for scenario 38
RRP39	NUMBER(15,5)	Regional Reference price for scenario 39
RRP40	NUMBER(15,5)	Regional Reference price for scenario 40
RRP41	NUMBER(15,5)	Regional Reference price for scenario 41
RRP42	NUMBER(15,5)	Regional Reference price for scenario 42
RRP43	NUMBER(15,5)	Regional Reference price for scenario 43
LASTCHANGED	DATE	Timestamp when this record was last modified

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9.5 Table: P5MIN_SCENARIODEMAND

Name P5MIN_SCENARIODEMAND

Comment The P5Min scenario MW offsets

9.5.1 Primary Key Columns

Name

EFFECTIVEDATE

REGIONID

SCENARIO

VERSION_DATETIME

9.5.2 Content

Name	Data Type	Mandat ory	Comment
EFFECTIVEDATE	DATE	X	The effective date of this set of scenarios
VERSION_DATETIME	DATE	X	The version of this set of scenarios
SCENARIO	NUMBER(2,0)	X	The scenario identifier
REGIONID	VARCHAR2(20)	X	The region to which to apply the deltaMW for this SCENARIO
DELTAMW	NUMBER(4,0)		The MW offset to apply to region total demand for this SCENARIO

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9.6 Table: P5MIN_SCENARIODEMANDTRK

Name P5MIN_SCENARIODEMANDTRK

Comment Tracks the 5Min scenario offset updates across time

9.6.1 Primary Key Columns

Name

EFFECTIVEDATE

VERSION_DATETIME

9.6.2 Content

Name	Data Type	Mandat ory	Comment
EFFECTIVEDATE	DATE	Х	The effective date of this set of scenarios
VERSION_DATETIME	DATE	Х	The version of this set of scenarios
AUTHORISEDDATE	DATE		The datetime that the scenario update was authorised
LASTCHANGED	DATE		The datetime that the record was last changed

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10 Package: PRE_DISPATCH

Name PRE_DISPATCH

Comment Results from a published Predispatch Run

Storage options

There are 2 ways to define the Pre-dispatch table primary keys (PKs) to define which data is loaded to the database and which data is retained:

Option 1 (default)

Overwrite older records when they are succeeded by later versions for the same entity and period. This is the Data Model default and results in the consumption of far less storage. Data Model updates issued by AEMO target this configuration so participants implementing option 2a or 2b must maintain their changes when AEMO releases a new Data Model version.

PredispatchLoad: DateTime, DUID

PredispatchInterconnectorRes: DateTime, InterconnectorID,

PredispatchPrice: DateTime, RegionID

PredispatchPriceSensitivities: DateTime, RegionID

PredispatchInterSensitivities: InterconnectorID, DateTime

PredispatchRegionsum: DateTime, RegionID

Option 2a

Retain only the Pricing records for tables relating to Price data and Physical records for tables relating to Physical data (e.g. targets). Approximately 50 times more storage volumes than option 1.

PredispatchLoad: PredispatchSeqNo, DateTime, DUID

 $\label{lem:predispatch} Predispatch Seq No, \ Date Time,$

InterconnectorID,

PredispatchPrice: PredispatchSegNo, DateTime, RegionID

PredispatchPriceSensitivities: PredispatchSeqNo, DateTime, RegionID

PredispatchInterSensitivities: PredispatchSegNo, DateTime,

InterconnectorID

PredispatchRegionsum: PredispatchSegNo, DateTime, RegionID

Option 2b

Retain both Physical and Pricing data for Intervention runs. If Intervention

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cases are stored in entirety, you must select the data carefully. The logic is the same as for Dispatch, i.e. Intervention Pricing is always where Intervention = 0 and Physical data is where Intervention = PredispatchCaseSolution.Intervention for the same PredispatchSeqNo.

Doubles the storage of option 2a but ONLY for Intervened cases.

PredispatchLoad: PredispatchSeqNo, Intervention, DateTime, DUID

PredispatchInterconnectorRes: PredispatchSeqNo, Intervention,DateTime, InterconnectorID,

PredispatchPrice: PredispatchSeqNo, Intervention, DateTime, RegionID

PredispatchPriceSensitivities: PredispatchSeqNo, Intervention, DateTime, RegionID

PredispatchInterSensitivities: PredispatchSeqNo, Intervention, DateTime, InterconnectorID

PredispatchRegionsum: PredispatchSeqNo, Intervention, DateTime, RegionID

Notes:

The data in the PredispatchIS file is always ordered so the pdrLoader writes the relevant data first and discards the subsequent irrelevant data, or writes the subsequent data, depending on how the PKs are defined.

You may order the PKs in a different order, depending on your local requirements. Any decision to change the PK column composition or order must consider the functional and performance impacts to existing applications or queries.

The pdrLoader caches PK definitions for performance reasons so any change to the PKs requires a restart of the application.

The TRANSACTION_TYPE default in the PDR_REPORT_RECORDS management tables for PREDISPATCH* tables is UPDATE-INSERT. You can modify this to INSERT for Option 2b, as the attempt to first perform an update becomes redundant. This can improve load performance.

10.1 List of tables

Name	Comment
PREDISPATCH_MNSPBIDTRK	PREDISPATCH_MNSPBIDTRK shows the MNSP bid tracking, including the bid version used in each predispatch run for each MNSP Interconnector Link. PREDISPATCH MNSPBIDTRK shows

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	the audit trail of the bid used for each predispatch run.
PREDISPATCHOFFERTRK	PREDISPATCHOFFERTRK is for the energy and ancillary service bid tracking of predispatch processing. PREDISPATCHOFFERTRK identifies which bids from BIDDAYOFFER and BIDOFFERPERIOD were applied for a given unit and bidtype for each predispatch run.

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10.2 Diagram: Entities: Predispatch

PREDISPATCHCASESOLUTION

PREDISPATCHSEQNO

PREDISPATCHINTERCONNECTORRES

INTERCONNECTORID DATETIME

PREDISPATCHLOAD

DUID DATETIME

PREDISPATCHCONSTRAINT

CONSTRAINTID DATETIME

PREDISPATCHPRICESENSITIVITIES PREDISPATCHREGIONSUM

REGIONID DATETIME REGIONID DATETIME

PREDISPATCHOFFERTRK

PREDISPATCHSEQNO BIDTYPE PERIODID

PREDISPATCHPRICE

REGIONID DATETIME

PREDISPATCH_MNSPBIDTRK

PREDISPATCHSEQNO LINKID PERIODID

PREDISPATCHSCENARIODEMAND

EFFECTIVEDATE VERSIONNO SCENARIO REGIONID

GENCONID REGIONID DATETIME

PREDISPATCH_FCAS_REQ PREDISPATCHINTERSENSITIVITIES

INTERCONNECTORID DATETIME

PREDISPATCHSCENARIODEMANDTRK

EFFECTIVEDATE VERSIONNO

PREDISPATCHBLOCKEDCONSTRAINT

PREDISPATCHSEQNO CONSTRAINTID

PREDISPATCH_LOCAL_PRICE

DATETIME DUID

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10.3 Table: PREDISPATCH_MNSPBIDTRK

Name PREDISPATCH_MNSPBIDTRK

Comment PREDISPATCH MNSPBIDTRK shows the MNSP bid tracking, including the bid

version used in each predispatch run for each MNSP Interconnector Link. PREDISPATCH_MNSPBIDTRK shows the audit trail of the bid used for each

predispatch run.

10.3.1 Description

Source

Own (confidential) data updates every predispatch run. All bids are available to all participants as part of next day market data.

Volume

1, 700, 000 per year

10.3.2 Notes

Name Comment Value

Visibility Data in this table is: Public

10.3.3 Primary Key Columns

Name

LINKID

PERIODID

PREDISPATCHSEQNO

10.3.4 Index Columns

Name

LASTCHANGED

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10.3.5 Content

Name	Data Type	Mandat ory	Comment
PREDISPATCHSEQNO	VARCHAR2(20)	Х	Predispatch run identifier
LINKID	VARCHAR2(10)	X	Identifier for each of the two MNSP Interconnector Links. Each link pertains to the direction from and to.
PERIODID	VARCHAR2(20)	Х	Trading Interval number
PARTICIPANTID	VARCHAR2(10)		Participant Identifier
SETTLEMENTDATE	DATE		Market Date from which bid is active
OFFERDATE	TIMESTAMP(3)		Time this bid was processed and loaded
VERSIONNO	NUMBER(3,0)		Version No. for given offer date and settlement date used
DATETIME	DATE		Period expressed as Date/Time
LASTCHANGED	DATE		Record creation timestamp

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10.4 Table: PREDISPATCHOFFERTRK

Name PREDISPATCHOFFERTRK

Comment PREDISPATCHOFFERTRK is for the energy and ancillary service bid tracking of

predispatch processing. PREDISPATCHOFFERTRK identifies which bids from BIDDAYOFFER and BIDOFFERPERIOD were applied for a given unit and

bidtype for each predispatch run.

10.4.1 Description

Source

PREDISPATCHOFFERTRK updates every 30 minutes. The data is confidential to each participant until the next trading day.

Volume

Approximately 45,000 records per day.

10.4.2 Notes

Name Comment Value

Visibility Data in this table is: Private; Public Next-Day

10.4.3 Primary Key Columns

Name

BIDTYPE

DUID

PERIODID

PREDISPATCHSEQNO

10.4.4 Index Columns

Name

LASTCHANGED

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10.4.5 Content

Name	Data Type	Mandat ory	Comment
PREDISPATCHSEQNO	VARCHAR2(20)	X	Unique identifier of predispatch run in the form YYYYMMDDPP with 01 at 04:30
DUID	VARCHAR2(10)	X	Dispatchable Unit identifier
BIDTYPE	VARCHAR2(20)	X	Bid type Identifier - the ancillary service to which the bid applies
PERIODID	VARCHAR2(20)	X	PERIODID is just a period count, starting from 1 for each predispatch run. Use DATETIME to determine half hour period.
BIDSETTLEMENTDATE	DATE		Settlement date of bid applied
BIDOFFERDATE	TIMESTAMP(3)		Time this bid was processed and loaded
DATETIME	DATE		Period date and time
LASTCHANGED	DATE		Last date and time record changed

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11 Package: SETTLEMENT_DATA

Name SETTLEMENT_DATA

Comment Results from a published Settlements Run. The settlement data and billing

run data are updated daily between 6am and 8am for AEMO's prudential processes. In a normal week, AEMO publishes one PRELIM, one FINAL

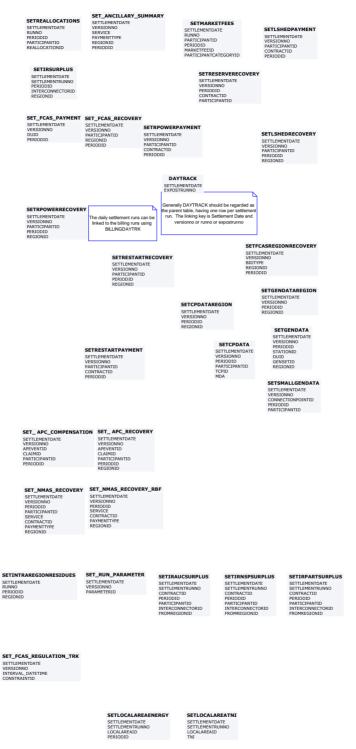
and two REVISION runs in addition to the daily runs.

11.1 List of tables

Name	Comment	
DAYTRACK	DAYTRACK identifies the actual settlement run processed for each settlement day. Settlement run is in the column EXPOSTRUNNO. Generally the number of the settlement run used in the latest statement is the maximum number.	
SETCPDATA	SETCPDATA shows meter settlement data for each connection point. This is the key view for retailers to verify energy charges. A regional summary view is also provided. As the view has values for each connection point by period, for each meter data file, it is a very large view.	
SETIRAUCSURPLUS	This view supports the Settlements Residue Auction, by holding the NSP participant allocations of IRSurplus arising as a result of the unsold units for a quarter.	
SETIRNSPSURPLUS	This view supports the Settlements Residue Auction, by showing the TNSP participant allocations of Interconnector Residue (IR) Surplus (i.e. derogated amounts) arising as a result of the sold units for a quarter.	
SETIRPARTSURPLUS	This view supports the Settlements Residue Auction, holding the participant allocations of IRSurplus.	
SETLOCALAREAENERGY	SETLOCALAREAENERGY shows the UFE, AGE and associated values for each local area and trading interval in a settlement run.	
SETLOCALAREATNI	SETLOCALAREATNI shows the list of TNIs constituent to a local area in a settlement run.	
SETMARKETFEES	SETMARKETFEES shows payments for market fees for each settlement date.	

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11.2 Diagram: Entities: Settlement Data



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11.3 Table: DAYTRACK

Name DAYTRACK

Comment DAYTRACK identifies the actual settlement run processed for each settlement

day. Settlement run is in the column EXPOSTRUNNO. Generally the number of

the settlement run used in the latest statement is the maximum number.

11.3.1 Description

DAYTRACK is a public data, and is available to all participants.

Source

DAYTRACK is populated by the posting of a billing run.

Volume

Daily billing runs insert one row per day. A non-interim statement has seven records inserted per week. An indicative maximum is 35 records inserted per week.

11.3.2 Notes

Name Comment Value

Visibility Data in this table is: Public

11.3.3 Primary Key Columns

Name

EXPOSTRUNNO

SETTLEMENTDATE

11.3.4 Index Columns

Name

LASTCHANGED

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11.3.5 Content

Name	Data Type	Mandat ory	Comment
SETTLEMENTDATE	DATE	Х	Calendar Settlement Date
REGIONID	VARCHAR2(10)		Not Used
EXANTERUNSTATUS	VARCHAR2(15)		Not Used
EXANTERUNNO	NUMBER(3,0)		Not Used
EXPOSTRUNSTATUS	VARCHAR2(15)		Not Used
EXPOSTRUNNO	NUMBER(3,0)	Х	Settlement Run No
LASTCHANGED	DATE		Last date and time record changed
SETTLEMENTINTERVALLENG TH	NUMBER(3,0)		Length of a settlement interval, in minutes (was 30 minutes, will be 5 minutes starting the commencement of 5MS rule change date).

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11.4 Table: SETCPDATA

Name SETCPDATA

Comment SETCPDATA shows meter settlement data for each connection point. This is the

key view for retailers to verify energy charges. A regional summary view is also provided. As the view has values for each connection point by period, for each

meter data file, it is a very large view.

11.4.1 Description

The Connection point details (in SETCPDATA) are confidential to the participant and host retailer that the connection points relate to. By comparison, the regional data (SETCPDATAREGION) is publically available.

Source

SETCPDATA updates with each Settlement run.

11.4.2 Notes

Name Comment Value

Visibility Data in this table is: Private

11.4.3 Primary Key Columns

Name

MDA

PARTICIPANTID

PERIODID

SETTLEMENTDATE

TCPID

VERSIONNO

11.4.4 Index Columns

Name

LASTCHANGED

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11.4.5 Index Columns

Name

PARTICIPANTID

11.4.6 Content

Name	Data Type	Mandat ory	Comment
SETTLEMENTDATE	DATE	Х	Calendar Settlement Date
VERSIONNO	NUMBER(10,0)	Х	Settlement run no
PERIODID	NUMBER(10,0)	Х	Settlements Trading Interval.
PARTICIPANTID	VARCHAR2(10)	Х	Unique participant identifier
TCPID	VARCHAR2(10)	Х	Connection point identifier
REGIONID	VARCHAR2(10)		Region Identifier
IGENERGY	NUMBER(16,6)		Import Gross energy into the pool - MWh
XGENERGY	NUMBER(16,6)		Export Gross energy from the pool - MWh
INENERGY	NUMBER(16,6)		Import Nett energy into the pool - MWh, plus UFEA if the UFEA amount is positive. When GS commences, this includes the UFEA amount in the settlement runs.
XNENERGY	NUMBER(16,6)		Export Nett energy from the pool - MWh, plus (UFEA * -1) if the UFEA amount is negative. When GS commences, this includes the UFEA amount in the settlement runs.
IPOWER	NUMBER(16,6)		Import reactive power
XPOWER	NUMBER(16,6)		Export reactive power
RRP	NUMBER(20,5)		Regional Reference Price
EEP	NUMBER(16,6)		Excess Energy Price
TLF	NUMBER(7,5)		Transmission Loss Factor

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CPRRP	NUMBER(16,6)		Connection Point Price = RRP * TLF
CPEEP	NUMBER(16,6)		Connection Point Excess Energy Price = EEP * TLF
TA	NUMBER(16,6)		Export - Import of Net energy (MWh)
EP	NUMBER(16,6)		settlement amount in \$ for trading period
APC	NUMBER(16,6)		Not used
RESC	NUMBER(16,6)		Not used
RESP	NUMBER(16,6)		Not used
METERRUNNO	NUMBER(10,0)		Meter Run Number = version number of the meter file
LASTCHANGED	DATE		Last date and time record changed
HOSTDISTRIBUTOR	VARCHAR2(10)		Not used
MDA	VARCHAR2(10)	Х	Metering Data Agent
AFE	NUMBER(18,8)		Adjusted Gross Energy for this Market Customer FRMP and TNI in the Settlements Trading Interval, excluding any UFEA component.
DME	NUMBER(18,8)		Sum of ME- for all NMIs at this Market Customer FRMP and TNI in the Settlements Trading Interval.
UFEA	NUMBER (18,8)		Share of UFE allocated to this FRMP and TNI in the Settlements Trading Interval.
AGE	NUMBER (18,8)		Adjusted Gross Energy for this Market Customer FRMP and TNI in the Settlements Trading Interval. When GS commences, this includes the UFEA amount in the settlement runs.

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11.5 Table: SETIRAUCSURPLUS

Name SETIRAUCSURPLUS

Comment This view supports the Settlements Residue Auction, by holding the NSP

participant allocations of IRSurplus arising as a result of the unsold units for a

quarter.

11.5.1 Description

SETIRAUCSURPLUS data is confidential to the relevant participant.

Source

SETIRAUCSURPLUS updates with each settlement run.

Volume

SETIRAUCSURPLUS contains a maximum of 10 million records per year.

11.5.2 Notes

Name Comment Value

Visibility Data in this table is: Private

11.5.3 Primary Key Columns

Name

CONTRACTID

FROMREGIONID

INTERCONNECTORID

PARTICIPANTID

PERIODID

SETTLEMENTDATE

SETTLEMENTRUNNO

11.5.4 Index Columns

Name

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LASTCHANGED

11.5.5 Content

Name	Data Type	Mandat ory	Comment
SETTLEMENTDATE	DATE	Х	Calendar Settlement Date
SETTLEMENTRUNNO	NUMBER(3,0)	Х	Settlement run number
CONTRACTID	VARCHAR2(10)	Х	SRA Contract unique identifier
PERIODID	NUMBER(3,0)	Х	Settlements Trading Interval.
PARTICIPANTID	VARCHAR2(10)	Х	Unique participant identifier
INTERCONNECTORID	VARCHAR2(10)	Х	Contracted Interconnector identifier
FROMREGIONID	VARCHAR2(10)	X	Nominated source region for Interconnector
TOTALSURPLUS	NUMBER(15,5)		Total value of surplus before allocation
CONTRACTALLOCATION	NUMBER(8,5)		Percentage allocated to participant
SURPLUSVALUE	NUMBER(15,5)		Amount NSP is paid for Inter/intra- Regional surplus energy produced
LASTCHANGED	DATE		Date and time this record was last modified
CSP_DEROGATION_AMOUNT	NUMBER(18,8)		The CSP derogation amount applied as an adjustment to SRA
UNADJUSTED_IRSR	NUMBER(18,8)		The SRA amount unadjusted by CSP

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11.6 Table: SETIRNSPSURPLUS

Name SETIRNSPSURPLUS

Comment This view supports the Settlements Residue Auction, by showing the TNSP

participant allocations of Interconnector Residue (IR) Surplus (i.e. derogated

amounts) arising as a result of the sold units for a quarter.

11.6.1 Description

SETIRNSPSURPLUS data is confidential to the relevant participant.

Source

SETIRNSPSURPLUS updates with each settlement run.

Volume

SETIRNSPSURPLUS contains a maximum of 10 million records per year.

11.6.2 Notes

Name Comment Value

Visibility Data in this table is: Private

11.6.3 Primary Key Columns

Name

CONTRACTID

FROMREGIONID

INTERCONNECTORID

PARTICIPANTID

PERIODID

SETTLEMENTDATE

SETTLEMENTRUNNO

11.6.4 Index Columns

Name

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LASTCHANGED

11.6.5 Content

Name	Data Type	Mandat ory	Comment
SETTLEMENTDATE	DATE	Х	Settlement date
SETTLEMENTRUNNO	NUMBER(3,0)	Х	Settlement run number
CONTRACTID	VARCHAR2(10)	Х	SRA Contract unique identifier
PERIODID	NUMBER(3,0)	Х	Settlements Trading Interval.
PARTICIPANTID	VARCHAR2(10)	Х	Participant unique identifier
INTERCONNECTORID	VARCHAR2(10)	Х	Identifier of Contracted Interconnector
FROMREGIONID	VARCHAR2(10)	X	Nominated source region for Interconnector
TOTALSURPLUS	NUMBER(15,5)		Total value of surplus
CONTRACTALLOCATION	NUMBER(8,5)		Percentage of total surplus allocated to participant
SURPLUSVALUE	NUMBER(15,5)		Amount NSP is paid for Inter/intra- Regional surplus energy produced by the participant
LASTCHANGED	DATE		Date and time this record was last modified
CSP_DEROGATION_AMOUNT	NUMBER(18,8)		The CSP derogation amount applied as an adjustment to SRA
UNADJUSTED_IRSR	NUMBER(18,8)		The SRA amount unadjusted by CSP

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11.7 Table: SETIRPARTSURPLUS

Name SETIRPARTSURPLUS

Comment This view supports the Settlements Residue Auction, holding the participant

allocations of IRSurplus.

11.7.1 Description

SETIRPARTSURPLUS data is confidential to each participant.

Source

SETIRPARTSURPLUS updates with each settlement run.

Volume

SETIRPARTSURPLUS contains a maximum of 20 million records per year.

11.7.2 Notes

Name Comment Value

Visibility Data in this table is: Private

11.7.3 Primary Key Columns

Name

CONTRACTID

FROMREGIONID

INTERCONNECTORID

PARTICIPANTID

PERIODID

SETTLEMENTDATE

SETTLEMENTRUNNO

11.7.4 Index Columns

Name

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LASTCHANGED

11.7.5 Content

Name	Data Type	Mandat ory	Comment
SETTLEMENTDATE	DATE	Х	Settlement date
SETTLEMENTRUNNO	NUMBER(3,0)	Х	Settlement run number
CONTRACTID	VARCHAR2(10)	Х	Ancillary Service Contract
PERIODID	NUMBER(3,0)	Х	Settlements Trading Interval.
PARTICIPANTID	VARCHAR2(10)	Х	Participant unique identifier
INTERCONNECTORID	VARCHAR2(10)	Х	Identifier of the Contracted Interconnector
FROMREGIONID	VARCHAR2(10)	Х	Nominated source region for Interconnector
TOTALSURPLUS	NUMBER(15,5)		Total value of surplus before allocation
CONTRACTALLOCATION	NUMBER(8,5)		Allocated percentage to participant
SURPLUSVALUE	NUMBER(15,5)		Amount NSP is paid for Inter/intra- Regional surplus energy produced
LASTCHANGED	DATE		Date and time this record was last updated
CSP_DEROGATION_AMOUNT	NUMBER(18,8)		The CSP derogation amount applied as an adjustment to SRA
UNADJUSTED_IRSR	NUMBER(18,8)		The SRA amount unadjusted by CSP

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11.8 Table: SETLOCALAREAENERGY

Name SETLOCALAREAENERGY

Comment SETLOCALAREAENERGY shows the UFE, AGE and associated values for each

local area and trading interval in a settlement run.

11.8.1 Primary Key Columns

Name

LOCALAREAID

PERIODID

SETTLEMENTDATE

SETTLEMENTRUNNO

11.8.2 Content

Name	Data Type	Mandat ory	Comment
SETTLEMENTDATE	DATE	Х	Settlement date of the settlement run
SETTLEMENTRUNNO	NUMBER(3,0)	Х	Settlement run number of the settlement run
LOCALAREAID	VARCHAR2(30)	Х	Unique identifier for the local area
PERIODID	NUMBER(3,0)	Х	Settlement Trading Interval
UFE	NUMBER(18,8)		Total unaccounted-for energy for the local area in this trading interval, in MWh
DDME	NUMBER(18,8)		DDME component of UFE for the local area in this trading interval, in MWh.
TME	NUMBER(18,8)		TME component of UFE for the local area in this trading interval, in MWh.
ADME	NUMBER(18,8)		ADME component of UFE for the local area in this trading interval, in MWh.
ADMELA	NUMBER(18,8)		The sum of all DME amounts for each Market Customer FRMP and TNI in the local area, in this trading interval.

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LASTCHANGED DATE	Last changed date time for the record
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11.9 Table: SETLOCALAREATNI

Name SETLOCALAREATNI

Comment SETLOCALAREATNI shows the list of TNIs constituent to a local area in a

settlement run.

11.9.1 Primary Key Columns

Name

LOCALAREAID

SETTLEMENTDATE

SETTLEMENTRUNNO

TNI

11.9.2 Content

Name	Data Type	Mandat ory	Comment
SETTLEMENTDATE	DATE	Х	Settlement date of the settlement run
SETTLEMENTRUNNO	NUMBER(3,0)	X	Settlement run number of the settlement run
LOCALAREAID	VARCHAR2(30)	Х	Unique identifier for the local area
TNI	VARCHAR2(30)	X	Unique identifier for a TNI constituent to the local area as at the settlement run
LASTCHANGED	DATE		Last changed date time for the record

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11.10 Table: SETMARKETFEES

Name SETMARKETFEES

Comment SETMARKETFEES shows payments for market fees for each settlement date.

11.10.1 Description

SETMARKETFEES is confidential data.

Source

SETMARKETFEES updates with each settlement run.

11.10.2 Notes

Name Comment Value

Visibility Data in this table is: Private

11.10.3 Primary Key Columns

Name

MARKETFEEID

PARTICIPANTCATEGORYID

PARTICIPANTID

PERIODID

RUNNO

SETTLEMENTDATE

11.10.4 Index Columns

Name

LASTCHANGED

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11.10.5 Content

Name	Data Type	Mandat ory	Comment
SETTLEMENTDATE	DATE	Х	Settlement date
RUNNO	NUMBER(3,0)	Х	Settlement run no
PARTICIPANTID	VARCHAR2(10)	Х	Unique participant identifier
PERIODID	NUMBER(3,0)	Х	Settlements Trading Interval.
MARKETFEEID	VARCHAR2(10)	Х	Market fee identifier (e.g. V_EST)
MARKETFEEVALUE	NUMBER(15,5)		Fee charge
ENERGY	NUMBER(16,6)		Energy amount for variable fees
LASTCHANGED	DATE		Last date and time record changed
PARTICIPANTCATEGORYID	VARCHAR2(10)	X	The participant category that the market fee recovery pertains to. Corresponds to the PARTICIPANTCATEGORYID column of the PARTICIPANT_BANDFEE_CATEGORY ALLOC_C_V view for BAND\$ type fees, or to the MARKETFEETYPE column of the MARKETFEE_P_V view for all other fee types.
FEERATE	NUMBER(18,8)		The rate applied to this fee for the participant at the settlement date
FEEUNITS	NUMBER(18,8)		The number of units applicable to this fee for the participant, in the trading interval.

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12 Package: STPASA_SOLUTION

Name STPASA_SOLUTION

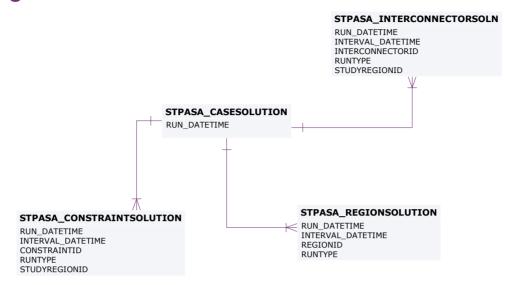
Comment Results from a published Short Term PASA Run

12.1 List of tables

Name	Comment
STPASA_CONSTRAINTSOLUTION	STPASA_CONSTRAINTSOLUTION shows binding and violated constraint results from the capacity evaluation, including the RHS value.
STPASA_INTERCONNECTORSOLN	STPASA_INTERCONNECTORSOLN shows the results of the capacity evaluation for Interconnectors, including the calculated limits for the interval.

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12.2 Diagram: Entities: ST PASA Solution



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12.3 Table: STPASA_CONSTRAINTSOLUTION

Name STPASA_CONSTRAINTSOLUTION

Comment STPASA CONSTRAINTSOLUTION shows binding and violated constraint results

from the capacity evaluation, including the RHS value.

12.3.1 Description

STPASA_CONSTRAINTSOLUTION is public data.

Source

STPASA_CONSTRAINTSOLUTION is updated each STPASA run (i.e. every 2 hours).

Volume

Rows per day: 19000 (est.)

Mb per month: 90

12.3.2 Notes

Name Comment Value

Visibility Data in this table is: Public

12.3.3 Primary Key Columns

Name

CONSTRAINTID

INTERVAL_DATETIME

RUN_DATETIME

RUNTYPE

STUDYREGIONID

12.3.4 Index Columns

Name

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LASTCHANGED

12.3.5 Content

Name	Data Type	Mandat ory	Comment
RUN_DATETIME	DATE	Х	Unique Timestamp Identifier for this study
INTERVAL_DATETIME	DATE	Х	The unique identifier for the interval within this study
CONSTRAINTID	VARCHAR2(20)	X	Constraint identifier (synonymous with GenConID)
CAPACITYRHS	NUMBER(12,2)		The RHS value in the capacity evaluation.
CAPACITYMARGINALVALUE	NUMBER(12,2)		Capacity adequacy assessment marginal value, 0 if not binding
CAPACITYVIOLATIONDEGRE E	NUMBER(12,2)		Capacity adequacy assessment violation degree for generic constraint; 0 if not violating
LASTCHANGED	DATE		Last changed date of this record
RUNTYPE	VARCHAR2(20)	Х	Type of run. Values are RELIABILITY_LRC and OUTAGE_LRC
STUDYREGIONID	VARCHAR2(20)	Х	Primary Region for LP Solve (or MARKET if none).

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12.4 Table: STPASA_INTERCONNECTORSOLN

Name STPASA_INTERCONNECTORSOLN

Comment STPASA INTERCONNECTORSOLN shows the results of the capacity evaluation

for Interconnectors, including the calculated limits for the interval.

12.4.1 Description

STPASA INTERCONNECTORSOLN is public so is available to all participants.

Source

STPASA_INTERCONNECTORSOLN is updated each STPASA run (i.e. every 2 hours).

Volume

Rows per day: 576 Mb per month: 4

12.4.2 Notes

Name Comment Value

Visibility Data in this table is: Public

12.4.3 Primary Key Columns

Name

INTERCONNECTORID

INTERVAL DATETIME

RUN_DATETIME

RUNTYPE

STUDYREGIONID

12.4.4 Index Columns

Name

LASTCHANGED

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12.4.5 Content

Name	Data Type	Mandat ory	Comment
RUN_DATETIME	DATE	Х	Unique Timestamp Identifier for this study
INTERVAL_DATETIME	DATE	Х	The unique identifier for the interval within this study
INTERCONNECTORID	VARCHAR2(10)	Х	Interconnector Identifier
CAPACITYMWFLOW	NUMBER(12,2)		Interconnector loading level (MW) that can be reached in case of capacity scarcity in neighbouring regions subject to network and energy constraints
CAPACITYMARGINALVALUE	NUMBER(12,2)		Capacity adequacy assessment marginal value, 0 if not binding
CAPACITYVIOLATIONDEGRE E	NUMBER(12,2)		Capacity adequacy assessment violation degree for interconnector capacity; 0 if not violating
CALCULATEDEXPORTLIMIT	NUMBER(12,2)		Calculated Interconnector limit of exporting energy on the basis of invoked constraints and static interconnector export limit
CALCULATEDIMPORTLIMIT	NUMBER(12,2)		Calculated Interconnector limit of importing energy on the basis of invoked constraints and static interconnector import limit. Note unlike the input interconnector import limit this is a directional quantity and should be defined with respect to the interconnector flow.
LASTCHANGED	DATE		Last changed date of this record
RUNTYPE	VARCHAR2(20)	Х	Type of run. Values are RELIABILITY_LRC and OUTAGE_LRC
EXPORTLIMITCONSTRAINTID	VARCHAR2(20)		ID of the constraint that sets the Interconnector Export Limit
IMPORTLIMITCONSTRAINTID	VARCHAR2(20)		ID of the constraint that sets the Interconnector Import Limit
STUDYREGIONID	VARCHAR2(20)	Х	Primary Region for LP Solve (or MARKET if none).

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13 Package: TRADING_DATA

Name TRADING_DATA

Comment 30 minute Trading interval results

13.1 List of tables

Name	Comment
AVERAGEPRICE30	Reflects the 30-minute average price (the pre-5MS trading price).

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13.2 Diagram: Entities: Trading Data

TRADINGINTERCONNECT

SETTLEMENTDATE RUNNO INTERCONNECTORID PERIODID

TRADINGPRICE

SETTLEMENTDATE RUNNO REGIONID PERIODID

AVERAGEPRICE30

PERIODDATE REGIONID

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13.3 Table: AVERAGEPRICE30

Name AVERAGEPRICE30

Comment Reflects the 30-minute average price (the pre-5MS trading price).

13.3.1 Primary Key Columns

Name

PERIODDATE

REGIONID

13.3.2 Content

Name	Data Type	Mandat ory	Comment
PERIODDATE	DATE	Х	30-minute interval period, 1 to 48 from the start of the calendar day
REGIONID	VARCHAR2(10)	Х	Region Identifier
PERIODID	NUMBER(3,0)	Х	The 30-minute interval period, 1 to 48
RRP	NUMBER(15,5)		Regional reference price for this period
PRICE_CONFIDENCE	VARCHAR2(20)		Result of Manifestly Incorrect Inputs Price Status and OCD_Status - either "FIRM" or "NOT FIRM". Only FIRM if the Dispatch Interval is resolved for both MII and OCD
LASTCHANGED	DATE		Last date and time record changed

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14 Package: PDPASA

Name PDPASA

Comment The PDPASA package provides a 30-minute solving process to the

Market systems

The current methodology for calculating reserves in the PreDispatch timeframe is determined in a post processing step using a heuristic calculation based the results and Interconnector limits from the

PreDispatch run.

The calculation is a reserve assessment based on the PASA solver similar

to existing ST and MT PASA business processes

The process reflects all intra-regional and inter-regional network

constraints as an input to the process

14.1 List of tables

Name	Comment
PDPASA_CONSTRAINTSOLUTION	PDPASA_CONSTRAINTSOLUTION shows binding and violated constraint results from the capacity evaluation, including the RHS value.
PDPASA_INTERCONNECTORSOLN	PDPASA_INTERCONNECTORSOLN shows the results of the capacity evaluation for Interconnectors, including the calculated limits for the interval.

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14.2 Diagram: Entities: PD PASA

PDPASA_CASESOLUTION RUN_DATETIME PDPASA_REGIONSOLUTION RUN_DATETIME INTERVAL_DATETIME REGIONID RUNTYPE

PDPASA_INTERCONNECTORSOLN

RUN_DATETIME INTERVAL_DATETIME INTERCONNECTORID RUNTYPE STUDYREGIONID

PDPASA_CONSTRAINTSOLUTION

RUN_DATETIME INTERVAL_DATETIME CONSTRAINTID RUNTYPE STUDYREGIONID

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14.3 Table: PDPASA_CONSTRAINTSOLUTION

Name PDPASA_CONSTRAINTSOLUTION

Comment PDPASA_CONSTRAINTSOLUTION shows binding and violated constraint

results from the capacity evaluation, including the RHS value.

14.3.1 Primary Key Columns

Name

CONSTRAINTID

INTERVAL_DATETIME

RUN_DATETIME

RUNTYPE

STUDYREGIONID

14.3.2 Content

Name	Data Type	Mandat ory	Comment
RUN_DATETIME	DATE	Х	Unique Timestamp Identifier for this study
INTERVAL_DATETIME	DATE	X	The unique identifier for the interval within this study
CONSTRAINTID	VARCHAR2(20)	X	Constraint identifier (synonymous with GenConID)
CAPACITYRHS	NUMBER(12,2)		The RHS value in the capacity evaluation.
CAPACITYMARGINALVALUE	NUMBER(12,2)		Capacity adequacy assessment marginal value, 0 if not binding
CAPACITYVIOLATIONDEGRE E	NUMBER(12,2)		Capacity adequacy assessment violation degree for generic constraint; 0 if not violating
LASTCHANGED	DATE		Last changed date of this record
RUNTYPE	VARCHAR2(20)	Х	Type of run. Values are RELIABILITY_LRC and OUTAGE_LRC

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STUDYREGIONID	VARCHAR2(20)	Х	Primary Region for LP Solve (or MARKET if none).

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14.4 Table: PDPASA INTERCONNECTORSOLN

Name PDPASA_INTERCONNECTORSOLN

Comment PDPASA_INTERCONNECTORSOLN shows the results of the capacity evaluation

for Interconnectors, including the calculated limits for the interval.

14.4.1 Primary Key Columns

Name

INTERCONNECTORID

INTERVAL_DATETIME

RUN_DATETIME

RUNTYPE

STUDYREGIONID

14.4.2 Content

Name	Data Type	Mandat ory	Comment
RUN_DATETIME	DATE	Х	Unique Timestamp Identifier for this study
INTERVAL_DATETIME	DATE	Х	The unique identifier for the interval within this study
INTERCONNECTORID	VARCHAR2(10)	Х	Interconnector Identifier
CAPACITYMWFLOW	NUMBER(12,2)		Interconnector loading level (MW) that can be reached in case of capacity scarcity in neighbouring regions subject to network and energy constraints
CAPACITYMARGINALVALUE	NUMBER(12,2)		Capacity adequacy assessment marginal value, 0 if not binding
CAPACITYVIOLATIONDEGRE E	NUMBER(12,2)		Capacity adequacy assessment violation degree for interconnector capacity; 0 if not violating
CALCULATEDEXPORTLIMIT	NUMBER(12,2)		Calculated Interconnector limit of exporting energy on the basis of invoked constraints and static interconnector export limit

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CALCULATEDIMPORTLIMIT	NUMBER(12,2)		Calculated Interconnector limit of importing energy on the basis of invoked constraints and static interconnector import limit. Note unlike the input interconnector import limit this is a directional quantity and should be defined with respect to the interconnector flow.
LASTCHANGED	DATE		Last changed date of this record
RUNTYPE	VARCHAR2(20)	X	Type of run. Values are RELIABILITY_LRC and OUTAGE_LRC
EXPORTLIMITCONSTRAINTID	VARCHAR2(20)		ID of the constraint that sets the Interconnector Export Limit
IMPORTLIMITCONSTRAINTID	VARCHAR2(20)		ID of the constraint that sets the Interconnector Import Limit
STUDYREGIONID	VARCHAR2(20)	X	Primary Region for LP Solve (or MARKET if none).

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