Electricity Data Model Upgrade Report

AEMO Electricity Data Model v5.5.0 Oracle

24/03/2025

Contents

1 Package: ANCILLARY_SERVICES

Name ANCILLARY_SERVICES

Comment Ancillary Service Contract Data

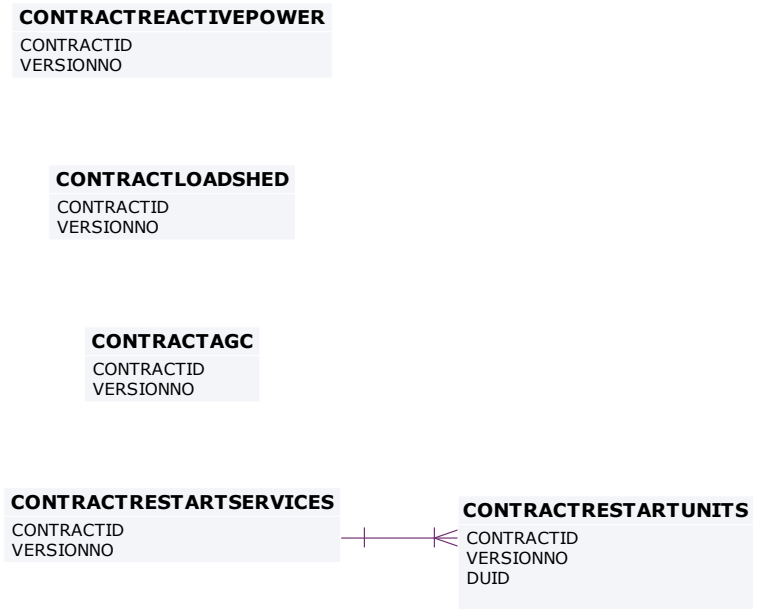
1.1 List of tables

Name	Comment	Visibility
CONTRACTLOADSHED	CONTRACTLOADSHED shows Governor contract details used in the settlement and dispatch of this service. Note: services are dispatched as 6 and 60 raise Frequency Control Ancillary Services (FCAS). Mandatory requirements and breakpoint details are not used for load shed. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.	Private
CONTRACTREACTIVEPOWER	CONTRACTREACTIVEPOWER shows Reactive Power contract details used in the settlement and dispatch of this service. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.	Private

1.2 Diagram: Entities: Ancillary Services

1.2.1 Card of diagram Entities: Ancillary Services

Name	Entities: Ancillary Services
Code	ENTITIES__ANCILLARY_SERVICES
Comment	



1.3 Table: CONTRACTLOADSHED

Name	CONTRACTLOADSHED
Comment	CONTRACTLOADSHED shows Governor contract details used in the settlement and dispatch of this service. Note: services are dispatched as 6 and 60 raise Frequency Control Ancillary Services (FCAS). Mandatory requirements and breakpoint details are not used for load shed. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.

1.3.1 Description

CONTRACTLOADSHED data is confidential to the relevant participant.

Source

CONTRACTLOADSHED updates only where there is a contract variation.

1.3.2 Notes

Name	Comment	Value
Visibility		Private

1.3.3 Primary Key Columns

Name
CONTRACTID
VERSIONNO

1.3.4 Index Columns

Name
PARTICIPANTID

1.3.5 Index Columns

Name

LASTCHANGED

1.3.6 Content

Name	Data Type	Mandatory	Comment
CONTRACTID	VARCHAR2(10)	X	Contract Identifier
VERSIONNO	NUMBER(3,0)	X	Contract Version No.
STARTDATE	DATE		Starting Date of Contract
ENDDATE	DATE		Termination Date of Contract
PARTICIPANTID	VARCHAR2(10)		Unique participant identifier
DUID	VARCHAR2(10)		Dispatchable Unit ID
LSEPRICE	NUMBER(6,2)		The load shed enabling price for this contract
MCPPRICE	NUMBER(12,2)		Minimum Compensation price
TENDEREDPRICE	NUMBER(6,2)		Price Tendered for Compensation per Trading interval - Not used since 13/12/1998
LSCR	NUMBER(6,2)		Load Shed Control Range
ILSCALINGFACTOR	NUMBER(15,5)		SPD scaling factor for load shed vs dispatched, (1 = dispatched)
LOWER60SECBREAKPOINT	NUMBER(9,6)		Not used

LOWER60SECMAX	NUMBER(9,6)		Not used
LOWER6SECBREAKPOINT	NUMBER(9,6)		Not used
LOWER6SECMAX	NUMBER(9,6)		Not used
RAISE60SECBREAKPOINT	NUMBER(9,6)		Not used
RAISE60SECCAPACITY	NUMBER(9,6)		Not used
RAISE60SECMAX	NUMBER(9,6)		Maximum 60 second raise
RAISE6SECBREAKPOINT	NUMBER(9,6)		Not used
RAISE6SECCAPACITY	NUMBER(9,6)		Not used
RAISE6SECMAX	NUMBER(9,6)		Limit Equation Raise 6 Second Maximum MW
PRICE6SECRAISEMANDATORY	NUMBER(16,6)		Not used
QUANT6SECRAISEMANDATORY	NUMBER(9,6)		Not used
PRICE6SECRAISECONTRACT	NUMBER(16,6)		Contract Price for 6 Second Raise
QUANT6SECRAISECONTRACT	NUMBER(9,6)		Contract Quantity for 6 Second Raise
PRICE60SECRAISEMANDATORY	NUMBER(16,6)		Not used
QUANT60SECRAISEMANDATORY	NUMBER(9,6)		Not used
PRICE60SECRAISECONTRACT	NUMBER(16,6)		Not used
QUANT60SECRAISECONTRACT	NUMBER(9,6)		Not used

PRICE6SECLOWERMANDATORY	NUMBER(16,6)		Not used
QUANT6SECLOWERMANDATORY	NUMBER(9,6)		Not used
PRICE6SECLOWERCONTRACT	NUMBER(16,6)		Not used
QUANT6SECLOWERCONTRACT	NUMBER(9,6)		Not used
PRICE60SECLOWERMANDATORY	NUMBER(16,6)		Not used
QUANT60SECLOWERMANDATORY	NUMBER(9,6)		Not used
PRICE60SECLOWERCONTRACT	NUMBER(16,6)		Not used
QUANT60SECLOWERCONTRACT	NUMBER(9,6)		Not used
AUTHORISEDBY	VARCHAR2(15)		User Name
AUTHORISEDDATE	DATE		Date Contract was Authorised
LASTCHANGED	DATE		Last date and time record changed
DEFAULT_TESTINGPAYMENT_AMOUNT	NUMBER(18,8)		The NMAS default payment amount
SERVICE_START_DATE	DATE		The NMAS Testing Service Start Date

1.4 Table: CONTRACTREACTIVEPOWER

Name	CONTRACTREACTIVEPOWER
Comment	CONTRACTREACTIVEPOWER shows Reactive Power contract details used in the settlement and dispatch of this service. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.

1.4.1 Description

CONTRACTREACTIVEPOWER data is confidential to the relevant participant.

Source

CONTRACTREACTIVEPOWER updates only where there is a contract variation.

1.4.2 Notes

Name	Comment	Value
Visibility		Private

1.4.3 Primary Key Columns

Name
CONTRACTID
VERSIONNO

1.4.4 Index Columns

Name
PARTICIPANTID

1.4.5 Index Columns

Name

LASTCHANGED

1.4.6 Content

Name	Data Type	Mandatory	Comment
CONTRACTID	VARCHAR2(10)	X	Contract Identifier
VERSIONNO	NUMBER(3,0)	X	Contract Version No.
STARTDATE	DATE		Starting Date of Contract
ENDDATE	DATE		Termination Date of Contract
PARTICIPANTID	VARCHAR2(10)		Unique participant identifier
DUID	VARCHAR2(10)		Dispatchable Unit ID
SYNCCOMPENSATION	VARCHAR2(1)		Sync Compensation Flag - Y for SYNCCOMP
MVARAPRICE	NUMBER(10,2)		Availability price per MVAr of RP absorption capability
MVAREPRICE	NUMBER(10,2)		Enabling price
MVARGPRICE	NUMBER(10,2)		Availability price per MVAr of RP generation capability
CCPRICE	NUMBER(10,2)		Compensation Cap
MTA	NUMBER(10,2)		Reactive Power Absorption Capability (MVAr)
MTG	NUMBER(10,2)		Reactive Power Generation Capability (MVAr)

MMCA	NUMBER(10,2)		Minimum Capability for MVAr Absorption required by Code
MMCG	NUMBER(10,2)		Minimum Capability for MVAr Generation required by Code
EU	NUMBER(10,2)		Estimated Power consumption of unit when operating on SYNCCOMP
PP	NUMBER(10,2)		Estimated Price for supply
BS	NUMBER(10,2)		Block Size of Unit
AUTHORISEDBY	VARCHAR2(15)		User Name
AUTHORISEDDATE	DATE		Date Contract was Authorised
LASTCHANGED	DATE		Last date and time record changed
DEFAULT_TESTINGPAYMENT_AMOUNT	NUMBER(18,8)		The NMAS default payment amount
SERVICE_START_DATE	DATE		The NMAS Testing Service Start Date
AVAILABILITY_MWH_THRESHOLD	NUMBER(18,8)		The MWh the unit must produce in a trading interval to be eligible for an excess-to-gen availability payment
MVAR_THRESHOLD	NUMBER(18,8)		The threshold value for MegaVar (MVAr) to check whether the service is fully available.
REBATE_CAP	NUMBER(18,8)		The maximum capped amount for the rebate payment.
REBATE_AMOUNT_PER_MVAR	NUMBER(18,8)		The per MVAR rebate amount used to calculate the rebate payment.

ISREBATEAPPLICABLE	NUMBER(1,0)		Used to check whether the contract is eligible for rebate. For new NSCAS contracts to apply new payment methodology this flag is 1.

2 Package: ASOFFER

Name ASOFFER

Comment Offer data for Ancillary Service Contracts

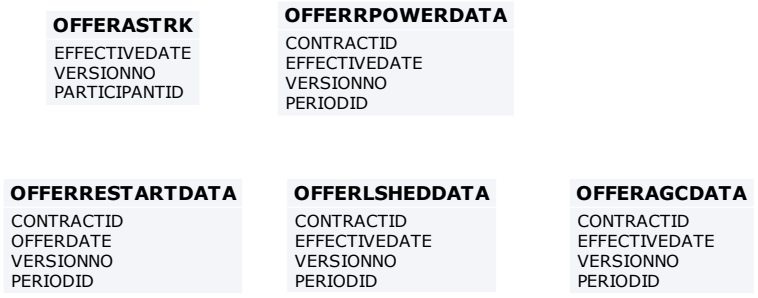
2.1 List of tables

Name	Comment	Visibility
OFFERLSHEDDATA	OFFERLSHEDDATA shows reoffers of load shed including available load shed quantity. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.	Private
OFFERRPOWERDATA	OFFERRPOWERDATA shows reoffers of reactive power capability and settlement measurements. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.	Private

2.2 Diagram: Entities: Ancillary Service Contracts

2.2.1 Card of diagram Entities: Ancillary Service Contracts

Name	Entities: Ancillary Service Contracts
Code	ENTITIES__ANCILLARY_SERVICE_CONTRACTS
Comment	



2.3 Table: OFFERLSHEDDATA

Name	OFFERLSHEDDATA
Comment	OFFERLSHEDDATA shows reoffers of load shed including available load shed quantity. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.

2.3.1 Description

OFFERLSHEDDATA data is confidential to the relevant participant.

Source

OFFERLSHEDDATA updates as reoffers process.

2.3.2 Notes

Name	Comment	Value
Visibility		Private

2.3.3 Primary Key Columns

Name
CONTRACTID
EFFECTIVEDATE
VERSIONNO
PERIODID

2.3.4 Index Columns

Name
LASTCHANGED

2.3.5 Content

Name	Data Type	Mandatory	Comment
CONTRACTID	VARCHAR2(10)	X	Contract identifier
EFFECTIVEDATE	DATE	X	Market date of reoffer
VERSIONNO	NUMBER(3,0)	X	Version No of reoffer
AVAILABLELOAD	NUMBER(4,0)		Available load
AUTHORISEDDATE	DATE		Authorised date
AUTHORISEDBY	VARCHAR2(15)		Authorised by
FILENAME	VARCHAR2(40)		Name of reoffer file
LASTCHANGED	DATE		Last date and time record changed
PERIODID	NUMBER(3,0)	X	Market day trading interval number

2.4 Table: OFFERRPOWERDATA

Name	OFFERRPOWERDATA
Comment	OFFERRPOWERDATA shows reoffers of reactive power capability and settlement measurements. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.

2.4.1 Description

OFFERRPOWERDATA data is confidential to the relevant participant.

Source

OFFERRPOWERDATA updates as reoffers process.

2.4.2 Notes

Name	Comment	Value
Visibility		Private

2.4.3 Primary Key Columns

Name
CONTRACTID
EFFECTIVEDATE
VERSIONNO
PERIODID

2.4.4 Index Columns

Name
CONTRACTID

2.4.5 Index Columns

Name

LASTCHANGED

2.4.6 Content

Name	Data Type	Mandatory	Comment
CONTRACTID	VARCHAR2(10)	X	Contract Version No.
EFFECTIVEDATE	DATE	X	Contract Version No.
VERSIONNO	NUMBER(3,0)	X	Version No. of Re-Offer
PERIODID	NUMBER(3,0)	X	Market trading interval
AVAILABILITY	NUMBER(3,0)		Availability of service
MTA	NUMBER(6,0)		Reactive Power Absorption Capability (MVar)
MTG	NUMBER(6,0)		Reactive Power Generation Capability (MVar)
AUTHORISEDDATE	DATE		Date Contract was Authorised
AUTHORISEDBY	VARCHAR2(15)		User Name
FILENAME	VARCHAR2(40)		File name of Re-Offer file
LASTCHANGED	DATE		Last date and time record changed

3 Package: BIDS

Name BIDS

Comment Energy and Market Based FCAS Offers

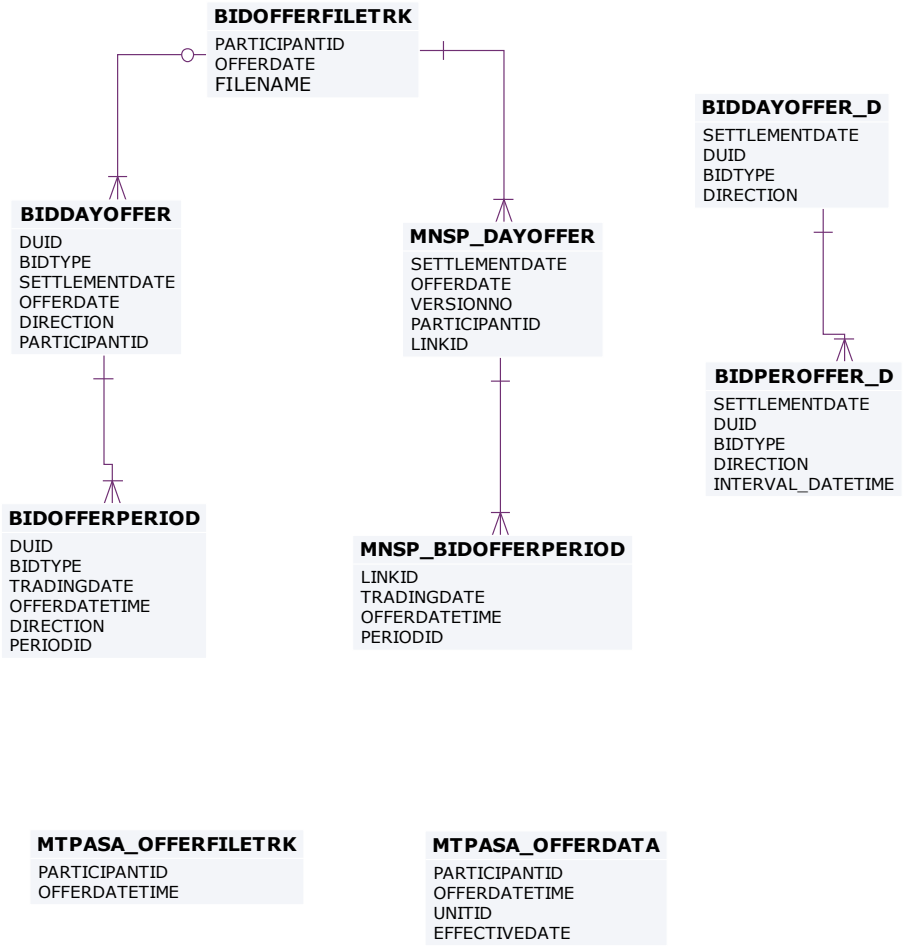
3.1 List of tables

Name	Comment	Visibility
BIDOFFERPERIOD	BIDOFFERPERIOD shows 5-minute period-based Energy and Ancillary Service bid data.BIDOFFERPERIOD is a child table of BIDDAYOFFER	Private & Public Next-Day
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.	Private & Public Next-Day

3.2 Diagram: Entities: Bids

3.2.1 Card of diagram Entities: Bids

Name	Entities: Bids
Code	ENTITIES__BIDS
Comment	



3.3 Table: BIDOFFERPERIOD

Name	BIDOFFERPERIOD
Comment	BIDOFFERPERIOD shows 5-minute period-based Energy and Ancillary Service bid data.BIDOFFERPERIOD is a child table of BIDDAYOFFER

3.3.1 Notes

Name	Comment	Value
Visibility		Private & Public Next-Day

3.3.2 Primary Key Columns

Name

TRADINGDATE

BIDTYPE

DUID

OFFERDATETIME

DIRECTION

PERIODID

3.3.3 Content

Name	Data Type	Mandatory	Comment
DUID	VARCHAR2(20)	X	Dispatchable Unit ID
BIDTYPE	VARCHAR2(10)	X	The type of bid, one-of ENERGY, RAISE6SEC, RAISE60SEC,

			RAISE5MIN, RAISEREG, LOWER6SEC, LOWER60SEC, LOWER5MIN, LOWERREG
TRADINGDATE	DATE	X	The trading date this bid is for
OFFERDATETIME	TIMESTAMP(3)	X	Time this bid was processed and loaded
DIRECTION	VARCHAR2(20)	X	The power flow direction to which this offer applies: GEN, LOAD or BIDIRECTIONAL
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)
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 future use for Energy bids, being the physical plant capability including any capability potentially available within 24 hours
ENERGYLIMIT	NUMBER(15,5)		The Energy limit applying at the end of this dispatch interval in MWh. For GEN this is a lower energy limit. For LOAD this is an upper energy limit
PERIODIDTO	NUMBER(3,0)		Period ID Ending
RECALL_PERIOD	NUMBER(8,3)		The advance notice(in hours) that a Scheduled Resource requires to achieve the PASA Availability MW

			for this trading interval

3.4 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.

3.4.1 Notes

Name	Comment	Value
Visibility		Private & Public Next-Day

3.4.2 Primary Key Columns

Name

TRADINGDATE

LINKID

OFFERDATETIME

PERIODID

3.4.3 Content

Name	Data Type	Mandatory	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	X	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 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
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 future use for Energy bids, being the physical plant capability including any capability potentially available within 24 hours
RECALL_PERIOD	NUMBER(8,3)		The advance notice(in hours) that a

			Scheduled Resource requires to achieve the PASA Availability MW for this trading interval

4 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.

4.1 List of tables

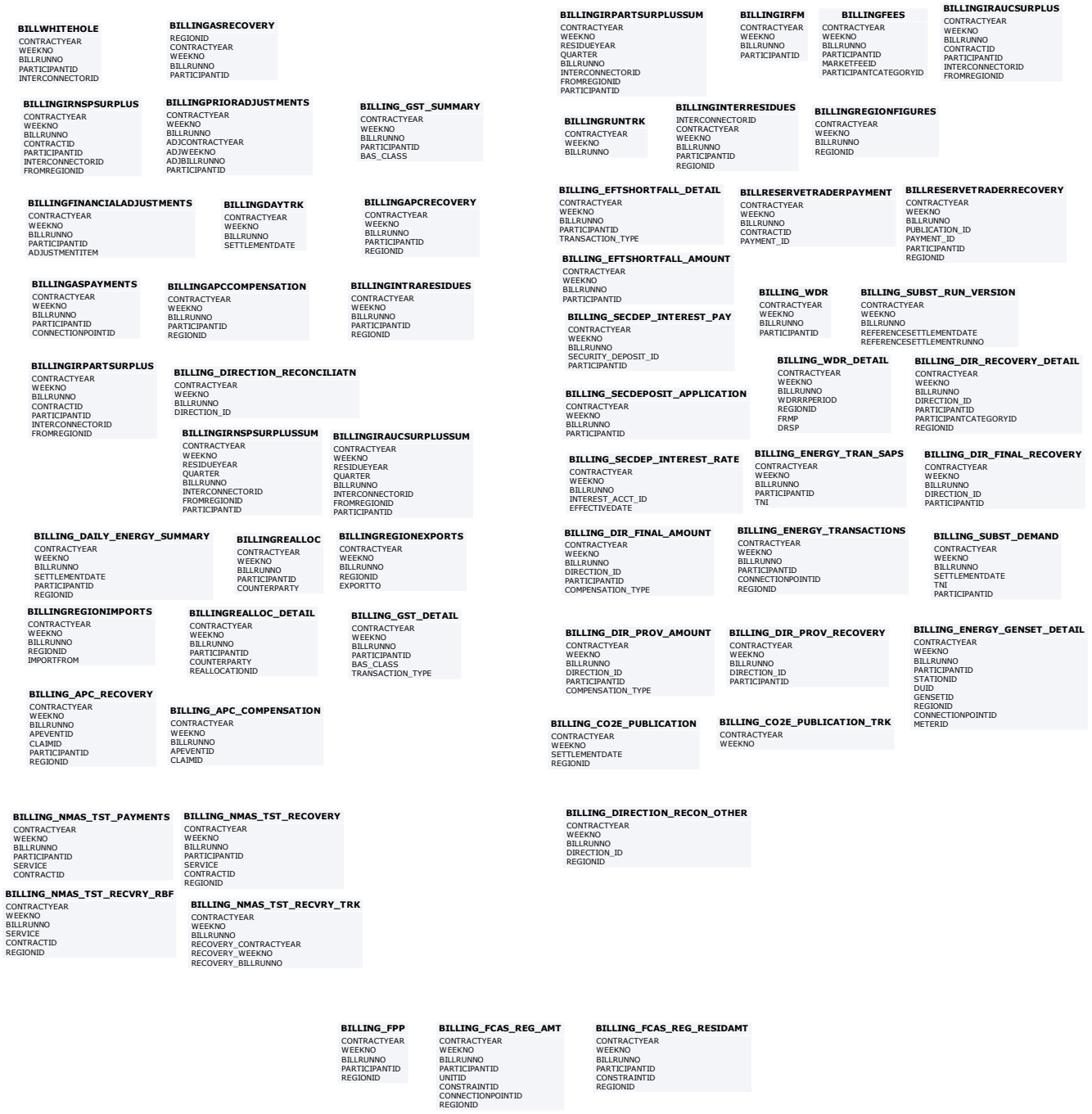
Name	Comment	Visibility
BILLING_FCAS_REG_AMT	This report show the summary of the Billing run FCAS Regulation Amounts incl default amounts.	Private
BILLING_FCAS_REG_RESIDAMT	This report show the summary of the Billing run FCAS Regulation Residual Amounts incl default amounts	Private
BILLING_FPP	This report show the summary of the Billing run FPP Amounts for the week	Private
BILLING_NMAS_TST_PAYMENTS	BILLING_NMAS_TEST_PAYMENTS publish the NSCAS/SRAS Testing Payments data for a posted billing week. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.	Private
BILLING_NMAS_TST_RECOVERY	BILLING_NMAS_TEST_RECOVERY sets out the recovery of NMAS testing payments This Table may also be used	Private

	for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.	
BILLING_NMAS_TST_RECVRY_TRK	BILLING_NMAS_TEST_RECVRY_TRK tracks the energy data used to allocate the test payment recovery over the recovery period. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.	Public
BILLINGASRECOVERY	BILLINGASRECOVERY shows participant charges for Ancillary Services for the billing period. This view shows the billing amounts for Ancillary Service Recovery.	Private

4.2 Diagram: Entities: Billing Run

4.2.1 Card of diagram Entities: Billing Run

Name	Entities: Billing Run
Code	ENTITIES__BILLING_RUN
Comment	


BILLWHITEHOLE
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
INTERCONNECTORID
BILLINGASRECOVERY
REGIONID
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
BILLINGIRNSPSURPLUS
CONTRACTYEAR
WEEKNO
BILLRUNNO
CONTRACTID
PARTICIPANTID
INTERCONNECTORID
FROMREGIONID
BILLINGPRIORADJUSTMENTS
CONTRACTYEAR
WEEKNO
BILLRUNNO
ADJCONTRACTYEAR
ADJWEEKNO
ADJBILLRUNNO
PARTICIPANTID
BILLING_GST_SUMMARY
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
BAS_CLASS
BILLINGFINANCIALADJUSTMENTS
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
ADJUSTMENTITEM
BILLINGDAYTRK
CONTRACTYEAR
WEEKNO
BILLRUNNO
SETTLEMENTDATE
BILLINGAPCRECOVERY
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
REGIONID
BILLINGASPAYMENTS
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
CONNECTIONPOINTID
BILLINGAPCCOMPENSATION
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
REGIONID
BILLINGINTRARESIDUES
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
REGIONID
BILLINGIRPARTSURPLUS
CONTRACTYEAR
WEEKNO
BILLRUNNO
CONTRACTID
PARTICIPANTID
INTERCONNECTORID
FROMREGIONID
BILLING_DIRECTION_RECONCILIATN
CONTRACTYEAR
WEEKNO
BILLRUNNO
DIRECTION_ID
BILLINGIRNSPSURPLUSSUM
CONTRACTYEAR
WEEKNO
RESIDUEYEAR
QUARTER
BILLRUNNO
INTERCONNECTORID
FROMREGIONID
PARTICIPANTID
BILLINGIRAUCSURPLUSSUM
CONTRACTYEAR
WEEKNO
RESIDUEYEAR
QUARTER
BILLRUNNO
INTERCONNECTORID
FROMREGIONID
PARTICIPANTID
BILLING_DAILY_ENERGY_SUMMARY
CONTRACTYEAR
WEEKNO
BILLRUNNO
SETTLEMENTDATE
PARTICIPANTID
REGIONID
BILLINGREALLOC
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
COUNTERPARTY
BILLINGREGIONEXPORTS
CONTRACTYEAR
WEEKNO
BILLRUNNO
REGIONID
EXPORTTO
BILLINGREGIONIMPORTS
CONTRACTYEAR
WEEKNO
BILLRUNNO
REGIONID
IMPORTFROM
BILLINGREALLOC_DETAIL
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
COUNTERPARTY
REALLOCATIONID
BILLING_GST_DETAIL
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
BAS_CLASS
TRANSACTION_TYPE
BILLING_APC_RECOVERY
CONTRACTYEAR
WEEKNO
BILLRUNNO
APEVENTID
CLAIMID
PARTICIPANTID
REGIONID
BILLING_APC_COMPENSATION
CONTRACTYEAR
WEEKNO
BILLRUNNO
APEVENTID
CLAIMID
BILLING_NMAS_TST_PAYMENTS
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
SERVICE
CONTRACTID
BILLING_NMAS_TST_RECOVERY
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
SERVICE
CONTRACTID
REGIONID
BILLING_NMAS_TST_RECVRY_RBF
CONTRACTYEAR
WEEKNO
BILLRUNNO
SERVICE
CONTRACTID
REGIONID
BILLING_NMAS_TST_RECVRY_TRK
CONTRACTYEAR
WEEKNO
BILLRUNNO
RECOVERY_CONTRACTYEAR
RECOVERY_WEEKNO
RECOVERY_BILLRUNNO
BILLINGIRPARTSURPLUSSUM
CONTRACTYEAR
WEEKNO
RESIDUEYEAR
QUARTER
BILLRUNNO
INTERCONNECTORID
FROMREGIONID
PARTICIPANTID
BILLINGIRFM
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WEEKNO
BILLRUNNO
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REGIONID
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REGIONID
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CONTRACTID
PAYMENT_ID
BILLRESERVETRADERRECOVERY
CONTRACTYEAR
WEEKNO
BILLRUNNO
PUBLICATION_ID
PAYMENT_ID
PARTICIPANTID
REGIONID
BILLING_EFTSHORTFALL_AMOUNT
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
BILLING_WDR
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
BILLING_SUBST_RUN_VERSION
CONTRACTYEAR
WEEKNO
BILLRUNNO
REFERENCESETTLEMENTDATE
REFERENCESETTLEMENTRUNNO
BILLING_SECDEP_INTEREST_PAY
CONTRACTYEAR
WEEKNO
BILLRUNNO
SECURITY_DEPOSIT_ID
PARTICIPANTID
BILLING_WDR_DETAIL
CONTRACTYEAR
WEEKNO
BILLRUNNO
WDRRRPERIOD
REGIONID
FRMP
DRSP
BILLING_DIR_RECOVERY_DETAIL
CONTRACTYEAR
WEEKNO
BILLRUNNO
DIRECTION_ID
PARTICIPANTID
PARTICIPANTCATEGORYID
REGIONID
BILLING_SECDEPOSIT_APPLICATION
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
BILLING_ENERGY_TRAN_SAPS
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
TNI
BILLING_DIR_FINAL_RECOVERY
CONTRACTYEAR
WEEKNO
BILLRUNNO
DIRECTION_ID
PARTICIPANTID
BILLING_SECDEP_INTEREST_RATE
CONTRACTYEAR
WEEKNO
BILLRUNNO
INTEREST_ACCT_ID
EFFECTIVEDATE
BILLING_DIR_FINAL_AMOUNT
CONTRACTYEAR
WEEKNO
BILLRUNNO
DIRECTION_ID
PARTICIPANTID
COMPENSATION_TYPE
BILLING_ENERGY_TRANSACTIONS
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
CONNECTIONPOINTID
REGIONID
BILLING_SUBST_DEMAND
CONTRACTYEAR
WEEKNO
BILLRUNNO
SETTLEMENTDATE
TNI
PARTICIPANTID
BILLING_DIR_PROV_AMOUNT
CONTRACTYEAR
WEEKNO
BILLRUNNO
DIRECTION_ID
PARTICIPANTID
COMPENSATION_TYPE
BILLING_DIR_PROV_RECOVERY
CONTRACTYEAR
WEEKNO
BILLRUNNO
DIRECTION_ID
PARTICIPANTID
BILLING_ENERGY_GENSET_DETAIL
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
STATIONID
DUID
GENSETID
REGIONID
CONNECTIONPOINTID
METERID
BILLING_CO2E_PUBLICATION
CONTRACTYEAR
WEEKNO
SETTLEMENTDATE
REGIONID
BILLING_CO2E_PUBLICATION_TRK
CONTRACTYEAR
WEEKNO
BILLING_DIRECTION_RECON_OTHER
CONTRACTYEAR
WEEKNO
BILLRUNNO
DIRECTION_ID
REGIONID
BILLING_FPP
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
REGIONID
BILLING_FCAS_REG_AMT
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
UNITID
CONSTRAINTID
CONNECTIONPOINTID
REGIONID
BILLING_FCAS_REG_RESIDAMT
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
CONSTRAINTID
REGIONID

4.3 Table: BILLING_FCAS_REG_AMT

Name	BILLING_FCAS_REG_AMT
Comment	This report show the summary of the Billing run FCAS Regulation Amounts incl default amounts.

4.3.1 Notes

Name	Comment	Value
Visibility		Private

4.3.2 Primary Key Columns

Name
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
UNITID
CONSTRAINTID
CONNECTIONPOINTID
REGIONID

4.3.3 Content

Name	Data Type	Mandatory	Comment
CONTRACTYEAR	NUMBER(4,0)	X	The Billing Contract Year

WEEKNO	NUMBER(3,0)	X	The Billing WeekNo
BILLRUNNO	NUMBER(4,0)	X	The Billing RunNo
PARTICIPANTID	VARCHAR2(20)	X	The Participant Id Identifier
UNITID	VARCHAR2(20)	X	The UnitId for which a FPP Factor is assigned
CONSTRAINTID	VARCHAR2(20)	X	The FCAS Reg Constraint Id
CONNECTIONPOINTID	VARCHAR2(20)	X	The ConnectionPointId from Settlement Results for the UnitId
REGIONID	VARCHAR2(20)	X	The Region Id Identifier
BIDTYPE	VARCHAR2(10)		The BidType for the Constraint Id
FPP_AMOUNT	NUMBER(18,8)		The FPP Amount for the Participant and the Unit
USED_AMOUNT	NUMBER(18,8)		The FCAS Regulation Used Amount for the Participant and the Unit
UNUSED_AMOUNT	NUMBER(18,8)		The FCAS Regulation Unused Amount for the Participant and the Unit
LASTCHANGED	DATE		The Lastchanged datetime of the record.

4.4 Table: BILLING_FCAS_REG_RESIDAMT

Name	BILLING_FCAS_REG_RESIDAMT
Comment	This report show the summary of the Billing run FCAS Regulation Residual Amounts incl default amounts

4.4.1 Notes

Name	Comment	Value
Visibility		Private

4.4.2 Primary Key Columns

Name

CONTRACTYEAR

WEEKNO

BILLRUNNO

PARTICIPANTID

CONSTRAINTID

REGIONID

4.4.3 Content

Name	Data Type	Mandatory	Comment
CONTRACTYEAR	NUMBER(4,0)	X	The Billing Contract Year
WEEKNO	NUMBER(3,0)	X	The Billing WeekNo
BILLRUNNO	NUMBER(4,0)	X	The Billing RunNo
PARTICIPANTID	VARCHAR2(20	X	The Participant Id Identifier

	)		
CONSTRAINTID	VARCHAR2(20)	X	The FCAS Reg Constraint Id
REGIONID	VARCHAR2(20)	X	The Region Id Identifier
BIDTYPE	VARCHAR2(10)		The BidType for the Constraint Id
ACE_MWH	NUMBER(18,8)		The ACE MWh used for the Residual Calculation for the Participant
ASOE_MWH	NUMBER(18,8)		The ASOE MWh used for the Residual Calculation of the Participant
RESIDUAL_MWH	NUMBER(18,8)		Sum of ACE_MWH + ASOE_MWH
FPP_ACE_AMOUNT	NUMBER(18,8)		The FPP ACE Portion Amount for the Billing Week
FPP_ASOE_AMOUNT	NUMBER(18,8)		The FPP ASOE Portion Amount for the Billing Week
FPP_RESIDUAL_AMOUNT	NUMBER(18,8)		The FPP Residual Amount for the Billing Week
USED_ACE_AMOUNT	NUMBER(18,8)		The Used ACE Portion Amount for the Billing Week
USED_ASOE_AMOUNT	NUMBER(18,8)		The Used ASOE Portion Amount for the Billing Week
USED_RESIDUAL_AMOUNT	NUMBER(18,8)		The Used Residual Amount for the Billing Week
UNUSED_ACE_AMOUNT	NUMBER(18,8)		The Unused ACE Portion Amount for the Billing Week
UNUSED_ASOE_AMOUNT	NUMBER(18,8)		The Unused ASOE Portion Amount

			for the Billing Week
UNUSED_RESIDUAL_AMOUNT	NUMBER(18,8)		The Unused Residual Amount for the Billing Week
LASTCHANGED	DATE		The Lastchanged datetime of the record.

4.5 Table: BILLING_FPP

Name BILLING_FPP

Comment This report show the summary of the Billing run FPP Amounts for the week

4.5.1 Notes

Name	Comment	Value
Visibility		Private

4.5.2 Primary Key Columns

Name

CONTRACTYEAR

WEEKNO

BILLRUNNO

PARTICIPANTID

REGIONID

4.5.3 Content

Name	Data Type	Mandatory	Comment
CONTRACTYEAR	NUMBER(4,0)	X	The Billing Contract Year
WEEKNO	NUMBER(3,0)	X	The Billing WeekNo
BILLRUNNO	NUMBER(4,0)	X	The Billing RunNo
PARTICIPANTID	VARCHAR2(20)	X	The Participant Id Identifier

REGIONID	VARCHAR2(20)	X	The Region Id Identifier
LOWERREG_AMOUNT	NUMBER(18,8)		The Lower Reg Service FPP Amount for the Participant and the Region for the Billing Week
LOWERREG_ACE_AMOUNT	NUMBER(18,8)		The Lower Reg Service FPP ACE Residual Amount for the Participant and the Region for the Billing Week
LOWERREG_ASOE_AMOUNT	NUMBER(18,8)		The Lower Reg Service FPP ASOE Residual Amount for the Participant and the Region for the Billing Week
LOWERREG_RESIDUAL_AMOUNT	NUMBER(18,8)		Sum of LOWERREG_ACE_AMOUNT + LOWERREG_ASOE_AMOUNT
RAISEREG_AMOUNT	NUMBER(18,8)		The Raise Reg Service FPP Amount for the Participant and the Region for the Billing Week
RAISEREG_ACE_AMOUNT	NUMBER(18,8)		The Raise Reg Service FPP ACE Residual Amount for the Participant and the Region for the Billing Week
RAISEREG_ASOE_AMOUNT	NUMBER(18,8)		The Raise Reg Service FPP ASOE Residual Amount for the Participant and the Region for the Billing Week
RAISEREG_RESIDUAL_AMOUNT	NUMBER(18,8)		RAISEREG_ACE_AMOUNT + RAISEREG_ASOE_AMOUNT
LASTCHANGED	DATE		The Lastchanged datetime of the record.

4.6 Table: BILLING_NMAS_TST_PAYMENTS

Name BILLING_NMAS_TST_PAYMENTS

Comment BILLING_NMAS_TEST_PAYMENTS publish the NSCAS/SRAS Testing Payments data for a posted billing week. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.

4.6.1 Notes

Name	Comment	Value
Visibility		Private

4.6.2 Primary Key Columns

Name

CONTRACTYEAR

WEEKNO

BILLRUNNO

PARTICIPANTID

SERVICE

CONTRACTID

4.6.3 Content

Name	Data Type	Mandatory	Comment
CONTRACTYEAR	NUMBER(4,0)	X	AEMO Contract Year number starting in week containing 1 January

WEEKNO	NUMBER(3,0)	X	Week no within the contract year. Week no 1 is the week containing 1 January
BILLRUNNO	NUMBER(3,0)	X	The current Billing RunNo for the week
PARTICIPANTID	VARCHAR(20)	X	The Participant from whom the amount is recovered
SERVICE	VARCHAR(10)	X	The type of NSCAS service. Current value values are: - REACTIVE - LOADSHED
CONTRACTID	VARCHAR(10)	X	The NMAS Contract Id
PAYMENT_AMOUNT	NUMBER(18,8)		The Testing Payment Amount to recover

4.7 Table: BILLING_NMAS_TST_RECOVERY

Name	BILLING_NMAS_TST_RECOVERY
Comment	BILLING_NMAS_TEST_RECOVERY sets out the recovery of NMAS testing payments This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.

4.7.1 Notes

Name	Comment	Value
Visibility		Private

4.7.2 Primary Key Columns

Name
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
SERVICE
CONTRACTID
REGIONID

4.7.3 Index Columns

Name
LASTCHANGED

4.7.4 Content

Name	Data Type	Mandatory	Comment
CONTRACTYEAR	NUMBER(4,0)	X	AEMO Contract Year number starting in week containing 1 January
WEEKNO	NUMBER(3,0)	X	Week no within the contract year. Week no 1 is the week containing 1 January
BILLRUNNO	NUMBER(3,0)	X	The current Billing RunNo for the week
PARTICIPANTID	VARCHAR(20)	X	The Participant from whom the amount is recovered
SERVICE	VARCHAR(10)	X	The type of NSCAS service. Current value values are: - REACTIVE - LOADSHED - RESTART
CONTRACTID	VARCHAR(10)	X	The NMAS Contract Id
REGIONID	VARCHAR(10)	X	The region from where the amount is recovered
RBF	NUMBER(18,8)		The Benefitting Factor for the RegionId
TEST_PAYMENT	NUMBER(18,8)		The total Testing Payment Amount to recover from all benefitting regions
RECOVERY_START_DATE	DATE		The Recovery Start Date for the Testing Payment Calculation
RECOVERY_END_DATE	DATE		The Recovery End Date for the

			Testing Payment Calculation
PARTICIPANT_ENERGY	NUMBER(18,8)		The Participant energy in MWh for the recovery period
REGION_ENERGY	NUMBER(18,8)		The RegionId energy in MWh for the recovery period
NEM_ENERGY	NUMBER(18,8)		The NEM energy in MWh for the recovery period
CUSTOMER_PROPORTION	NUMBER(18,8)		The Customer Proportion for recovery amount in Percent
GENERATOR_PROPORTION	NUMBER(18,8)		The Generator Proportion for recovery amount in Percent (100-Customer Portion)
PARTICIPANT_GENERATION	NUMBER(18,8)		The Participant Generation for the recovery period
NEM_GENERATION	NUMBER(18,8)		The NEM Generation for the recovery period
RECOVERY_AMOUNT	NUMBER(18,8)		The Total recovery amount for the billing week, being the sum of the customer and generator proportions for the PARTICIPANTID in REGIONID and sum of RecoveryAmount_ACE and RecoveryAmount_ASOE.
LASTCHANGED	DATE		The Last Updated date and time
PARTICIPANT_ACE_MWH	NUMBER(18,8)		The Participant ACE MWh Value used in the Recovery of the Testing Payment Amount if the service is recovered from ACE. NULL for Billing Week prior to the IESS rule effective date
REGION_ACE_MWH	NUMBER(18,8)		The Region ACE MWh Value used

			in the Recovery of the Testing Payment Amount if the service is recovered from ACE. NULL for Billing Week prior to the IESS rule effective date
ACE_PORTION	NUMBER(18,8)		The Portion of ACE MWh Value used in the Recovery Calculation. . NULL for Billing Week prior to the IESS rule effective date
ASOE_PORTION	NUMBER(18,8)		The Portion of ASOE MWh Value used in the Recovery Calculation (100 - ACE_Portion). . NULL for Billing Week prior to the IESS rule effective date
PARTICIPANT_ASOE_MWH	NUMBER(18,8)		The Participant ASOE MWh Value used in the Recovery of the Testing Payment Amount if the service is recovered from ASOE. NULL for Billing Week prior to the IESS rule effective date
REGION_ASOE_MWH	NUMBER(18,8)		The Region ASOE MWh Value used in the Recovery of the Testing Payment Amount if the service is recovered from ASOE. NULL for Billing Week prior to the IESS rule effective date
RECOVERYAMOUNT_ACE	NUMBER(18,8)		The Participant Recovery Amount based on ACE MWh Value if the service is recovered from ACE . NULL for Billing Week prior to the IESS rule effective date
RECOVERYAMOUNT_ASOE	NUMBER(18,8)		The Participant Recovery Amount based on ASOE MWh Value if the service is recovered from ASOE . NULL for Billing Week prior to the

			IESS rule effective date

4.8 Table: BILLING_NMAS_TST_RECVRY_TRK

Name BILLING_NMAS_TST_RECVRY_TRK

Comment BILLING_NMAS_TEST_RECVRY_TRK tracks the energy data used to allocate the test payment recovery over the recovery period. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.

4.8.1 Notes

Name	Comment	Value
Visibility		Public

4.8.2 Primary Key Columns

Name

CONTRACTYEAR

WEEKNO

BILLRUNNO

RECOVERY_CONTRACTYEAR

RECOVERY_WEEKNO

RECOVERY_BILLRUNNO

4.8.3 Content

Name	Data Type	Mandatory	Comment
CONTRACTYEAR	NUMBER(4,0)	X	AEMO Contract Year number starting in week containing 1 January

WEEKNO	NUMBER(3,0)	X	Week no within the contract year. Week no 1 is the week containing 1 January
BILLRUNNO	NUMBER(3,0)	X	The current Billing RunNo for the week
RECOVERY_CONTRACTYEAR	NUMBER(4,0)	X	AEMO Contract Year for energy data used in recovery calculation
RECOVERY_WEEKNO	NUMBER(3,0)	X	Week no for energy data used in recovery calculation
RECOVERY_BILLRUNNO	NUMBER(3,0)	X	Billing RunNo for energy data used in recovery calculation

4.9 Table: BILLINGASRECOVERY

Name	BILLINGASRECOVERY
Comment	BILLINGASRECOVERY shows participant charges for Ancillary Services for the billing period. This view shows the billing amounts for Ancillary Service Recovery.

4.9.1 Description

BILLINGASRECOVERY data is confidential to relevant participant.

Source

Updated with each billing run.

Volume

Approximately 5 records are inserted per billrunno, or about 55 records inserted per week.

4.9.2 Notes

Name	Comment	Value
Visibility		Private

4.9.3 Primary Key Columns

Name
CONTRACTYEAR
WEEKNO
BILLRUNNO
PARTICIPANTID
REGIONID

4.9.4 Index Columns

Name

LASTCHANGED

4.9.5 Content

Name	Data Type	Mandatory	Comment
REGIONID	VARCHAR2(10)	X	Region Identifier
CONTRACTYEAR	NUMBER(4,0)	X	Contract Year
WEEKNO	NUMBER(3,0)	X	Week No
BILLRUNNO	NUMBER(3,0)	X	Billing Run No.
PARTICIPANTID	VARCHAR2(10)	X	Participant Identifier
RAISE6SEC	NUMBER(15,5)		Raise 6 Sec Recovery. NULL for Billing Week post the IESS rule effective date
LOWER6SEC	NUMBER(15,5)		Lower 6 Sec Recovery. NULL for Billing Week post the IESS rule effective date
RAISE60SEC	NUMBER(15,5)		Raise 60 Sec Recovery. NULL for Billing Week post the IESS rule effective date
LOWER60SEC	NUMBER(15,5)		Lower 60 Sec Recovery. NULL for Billing Week post the IESS rule effective date
AGC	NUMBER(15,5)		AGC Recovery - Not used since circa 2000
FCASCOMP	NUMBER(15,5)		Frequency Control Compensation Recovery - Not used since circa 2000

LOADSHED	NUMBER(15,5)		Load Shed Recovery. Post-IESS the value in this column only represent the Testing Payment Recovery from Customers. 0 if no testing payment exists.
RGUL	NUMBER(15,5)		Rapid Generator Unit Loading Recovery - Not used since December 2001
RGUU	NUMBER(15,5)		Rapid Generator Unit Unloading Recovery - Not used since December 2001
REACTIVEPOWER	NUMBER(15,5)		Reactive Power Recovery. Post-IESS the value in this column only represent the Testing Payment Recovery from Customers. 0 if no testing payment exists.
SYSTEMRESTART	NUMBER(15,5)		System Restart Recovery. Post-IESS the value in this column only represent the Testing Payment Recovery from Customers. 0 if no testing payment exists
LASTCHANGED	DATE		The latest date and time a file was updated/inserted
RAISE6SEC_GEN	NUMBER(15,5)		Raise 6 Sec Recovery for Generator. NULL for Billing Week post the IESS rule effective date
LOWER6SEC_GEN	NUMBER(15,5)		Lower 6 Sec Recovery for Generator. NULL for Billing Week post the IESS rule effective date
RAISE60SEC_GEN	NUMBER(15,5)		Raise 60 Sec Recovery for Generator. NULL for Billing Week post the IESS rule effective date

LOWER60SEC_GEN	NUMBER(15,5)		Lower 60 Sec Recovery for Generator. NULL for Billing Week post the IESS rule effective date
AGC_GEN	NUMBER(15,5)		AGC Recovery for Generator
FCASCOMP_GEN	NUMBER(15,5)		Frequency Control Compensation Recovery for Generator
LOADSHED_GEN	NUMBER(15,5)		Load Shed Recovery for Generator. Post-IESS the value in this column only represent the Testing Payment Recovery from Generators. 0 if no testing payment exists.
RGUL_GEN	NUMBER(15,5)		Rapid Generator unit Loading Recovery for. Generator - Not used since December 2001
RGUU_GEN	NUMBER(15,5)		Rapid Generator Unit Unloading Recovery for Generator - Not used since December 2001
REACTIVEPOWER_GEN	NUMBER(15,5)		Reactive Power Recovery for Generator. Post-IESS the value in this column only represent the Testing Payment Recovery from Generators. 0 if no testing payment exists.
SYSTEMRESTART_GEN	NUMBER(15,5)		System Restart Recovery for Generator. Post-IESS the value in this column only represent the Testing Payment Recovery from Generators. 0 if no testing payment exists.
LOWER5MIN	NUMBER(15,5)		Recovery amount for the Lower 5 Minute service attributable to customer connection points. NULL

			for Billing Week post the IESS rule effective date
RAISE5MIN	NUMBER(15,5)		Recovery amount for the Raise 5 Minute service attributable to customer connection points. NULL for Billing Week post the IESS rule effective date
LOWERREG	NUMBER(18,8)		Post-IESS the amount in this column represent only the Lower Regulation FCAS MPF Recovery Amount from Customer and Generator Connection Point MPFs, no Residue Amounts are added to this column value. For Billing Weeks past FPP Rule Effective Date this column is not used. Always show 0.
RAISEREG	NUMBER(18,8)		Post-IESS the amount in this column represent only the Raise Regulation FCAS MPF Recovery Amount from Customer and Generator Connection Point MPFs, no Residue Amounts are added to this column value. For Billing Weeks past FPP Rule Effective Date this column is not used. Always show 0.
LOWER5MIN_GEN	NUMBER(16,6)		Recovery amount for the Lower 5 Minute service attributable to generator connection points. NULL for Billing Week post the IESS rule effective date
RAISE5MIN_GEN	NUMBER(16,6)		Recovery amount for the Raise 5 Minute service attributable to generator connection points. NULL for Billing Week post the IESS rule

			effective date
LOWERREG_GEN	NUMBER(16,6)		Recovery amount for the Lower Regulation service attributable to generator connection points. NULL for Billing Week post the IESS rule effective date
RAISEREG_GEN	NUMBER(16,6)		Recovery amount for the Raise Regulation service attributable to generator connection points. NULL for Billing Week post the IESS rule effective date. NULL for Billing Week post the IESS rule effective date.
AVAILABILITY_REACTIVE	NUMBER(18,8)		The total availability payment recovery amount (customer).. NULL for Billing Week post the IESS rule effective date
AVAILABILITY_REACTIVE_RBT	NUMBER(18,8)		The total availability payment rebate recovery amount (customer).. NULL for Billing Week post the IESS rule effective date
AVAILABILITY_REACTIVE_GEN	NUMBER(18,8)		The total availability payment recovery amount (Generator).. NULL for Billing Week post the IESS rule effective date
AVAILABILITY_REACTIVE_RBT_GEN	NUMBER(18,8)		The total availability payment rebate recovery amount (Generator).. NULL for Billing Week post the IESS rule effective date
RAISE1SEC	NUMBER(18,8)		Customer recovery amount for the very fast raise service. NULL for Billing Week post the IESS rule effective date

LOWER1SEC	NUMBER(18,8)		Customer recovery amount for the very fast lower service. NULL for Billing Week post the IESS rule effective date
RAISE1SEC_GEN	NUMBER(18,8)		Generator recovery amount for the very fast raise service. NULL for Billing Week post the IESS rule effective date
LOWER1SEC_GEN	NUMBER(18,8)		Generator recovery amount for the very fast lower service. NULL for Billing Week post the IESS rule effective date
LOWERREG_ACE	NUMBER(18,8)		The Lower Regulation FCAS Residue Recovery Amount using ACE MWh values. NULL for Billing Week prior to the IESS rule effective date
RAISEREG_ACE	NUMBER(18,8)		The Raise Regulation FCAS Residue Recovery Amount using ACE MWh values. NULL for Billing Week prior to the IESS rule effective date
RAISE1SEC_ACE	NUMBER(18,8)		The Raise1Sec FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
RAISE1SEC_ASOE	NUMBER(18,8)		The Raise1Sec FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
LOWER1SEC_ACE	NUMBER(18,8)		The Lower1Sec FCAS Recovery Amount for the Participant and Region from ACE MWh Portion.

			NULL for Billing Week prior to the IESS rule effective date
LOWER1SEC_ASOE	NUMBER(18,8)		The Lower1Sec FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
RAISE6SEC_ACE	NUMBER(18,8)		The Raise6Sec FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
RAISE6SEC_ASOE	NUMBER(18,8)		The Raise6Sec FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
LOWER6SEC_ACE	NUMBER(18,8)		The Lower6Sec FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
LOWER6SEC_ASOE	NUMBER(18,8)		The Lower6Sec FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL for Billing Week prior to the IESS rule effective date value.
RAISE60SEC_ACE	NUMBER(18,8)		The Raise60Sec FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
RAISE60SEC_ASOE	NUMBER(18,8)		The Raise60Sec FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion.

			NULL for Billing Week prior to the IESS rule effective date
LOWER60SEC_ACE	NUMBER(18,8)		The Lower60Sec FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
LOWER60SEC_ASOE	NUMBER(18,8)		The Lower60Sec FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
RAISE5MIN_ACE	NUMBER(18,8)		The Raise5Min FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
RAISE5MIN_ASOE	NUMBER(18,8)		The Raise5Min FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
LOWER5MIN_ACE	NUMBER(18,8)		The Lower5Min FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
LOWER5MIN_ASOE	NUMBER(18,8)		The Lower5Min FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
REACTIVEPOWER_ACE	NUMBER(18,8)		The Reactive Power Ancillary Service Recovery Amount for for the Participant and Region from

			ACE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
REACTIVEPOWER_ASOE	NUMBER(18,8)		The Reactive Power Ancillary Service Recovery Amount for for the Participant and Region from ASOE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
LOADSHED_ACE	NUMBER(18,8)		The Load Shed Ancillary Service Recovery Amount for for the Participant and Region from ACE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
LOADSHED_ASOE	NUMBER(18,8)		The Load Shed Ancillary Service Recovery Amount for for the Participant and Region from ASOE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
SYSTEMRESTART_ACE	NUMBER(18,8)		The System Restart Ancillary Service Recovery Amount for for the Participant and Region from ACE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
SYSTEMRESTART_ASOE	NUMBER(18,8)		The System Restart Ancillary Service Recovery Amount for for the Participant and Region from ASOE MWh Portion. NULL for Billing Week prior to the IESS rule effective date,
AVAILABILITY_REACTIVE_ACE	NUMBER(18,8)		The Reactive Power Ancillary Service Availability Payment

			Recovery Amount for the Participant and Region from ACE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
AVAILABILITY_REACTIVE_ASOE	NUMBER(18,8)		The Reactive Power Ancillary Service Availability Payment Recovery Amount for the Participant and Region from ASOE MWh Portion. For Pre-IESS Settlement dates this column will have NULL value. For Pre-IESS Settlement dates this column will have NULL value.
AVAILABILITY_REACTIVE_RBT_ACE	NUMBER(18,8)		The Reactive Power Ancillary Service Availability Rebate Payment Recovery Amount for the Participant and Region from ACE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
AVAILABILITY_REACTIVE_RBT_ASOE	NUMBER(18,8)		The Reactive Power Ancillary Service Availability Rebate Payment Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL for Billing Week prior to the IESS rule effective date
LOWERREG_USED	NUMBER(18,8)		The FCAS Lower Reg Service Used Amount for the Billing Week. This column will be NULL for Billing Week Prior to FPP Rule Effective Date
LOWERREG_UNUSED	NUMBER(18,8)		The FCAS Lower Reg Service Unused Amount for the Billing Week. This column will be NULL for

			Billing Week Prior to FPP Rule Effective Date
RAISEREG_USED	NUMBER(18,8)		The FCAS Raise Reg Service Used Amount for the Billing Week. This column will be NULL for Billing Week Prior to FPP Rule Effective Date
RAISEREG_UNUSED	NUMBER(18,8)		The FCAS Raise Reg Service Unused Amount for the Billing Week. This column will be NULL for Billing Week Prior to FPP Rule Effective Date
LOWERREG_USED_ACE	NUMBER(18,8)		The FCAS Lower Reg Service Used ACE Residual Amount for the Billing Week. This column will be NULL for Billing Week Prior to FPP Rule Effective Date
LOWERREG_USED_ASOE	NUMBER(18,8)		The FCAS Lower Reg Service Used ASOE Amount for the Billing Week. This column will be NULL for Billing Week Prior to FPP Rule Effective Date
LOWERREG_USED_RESIDUAL	NUMBER(18,8)		LOWERREG_USED_ACE + LOWERREG_USED_ASOE
RAISEREG_USED_ACE	NUMBER(18,8)		The FCAS Raise Reg Service Used ACE Residual Amount for the Billing Week. This column will be NULL for Billing Week Prior to FPP Rule Effective Date
RAISEREG_USED_ASOE	NUMBER(18,8)		The FCAS Raise Reg Service Used ASOE Residual Amount for the Billing Week. This column will be NULL for Billing Week Prior to FPP Rule Effective Date

RAISEREG_USED_RESIDUAL	NUMBER(18,8)		RAISEREG_USED_ACE + RAISEREG_USED_ASOE
LOWERREG_UNUSED_ACE	NUMBER(18,8)		The FCAS Lower Reg Service Unused ACE Residual Amount for the Billing Week. This column will be NULL for Billing Week Prior to FPP Rule Effective Date
LOWERREG_UNUSED_ASOE	NUMBER(18,8)		The FCAS Lower Reg Service Unused ASOE Residual Amount for the Billing Week. This column will be NULL for Billing Week Prior to FPP Rule Effective Date
LOWERREG_UNUSED_RESIDUAL	NUMBER(18,8)		LOWERREG_UNUSED_ACE + LOWERREG_UNUSED_ASOE
RAISEREG_UNUSED_ACE	NUMBER(18,8)		The FCAS Raise Reg Service Unused ACE Residual Amount for the Billing Week. This column will be NULL for Billing Week Prior to FPP Rule Effective Date
RAISEREG_UNUSED_ASOE	NUMBER(18,8)		The FCAS Raise Reg Service Unused ASOE Residual Amount for the Billing Week. This column will be NULL for Billing Week Prior to FPP Rule Effective Date
RAISEREG_UNUSED_RESIDUAL	NUMBER(18,8)		RAISEREG_UNUSED_ACE + RAISEREG_UNUSED_ASOE

5 Package: DEMAND_FORECASTS

Name DEMAND_FORECASTS

Comment Regional Demand Forecasts and Intermittent Generation forecasts.

5.1 List of tables

Name	Comment	Visibility
INTERMITTENT_GEN_FCST_DATA	Stores the forecast generation (MW) for each interval within a given forecast of an intermittent generator.	Private
ROOFTOP_PV_FORECAST	Regional forecasts of Rooftop Solar generation across the half-hour intervals over 8 days	Public

5.2 Diagram: Entities: Demand Forecasts

5.2.1 Card of diagram Entities: Demand Forecasts

Name	Entities: Demand Forecasts
Code	ENTITIES__DEMAND_FORECASTS
Comment	


RESDEMANDTRK
EFFECTIVEDATE
REGIONID
OFFERDATE
VERSIONNO
PERDEMAND
SETTLEMENTDATE
REGIONID
OFFERDATE
PERIODID
VERSIONNO
INTERMITTENT_GEN_FCST
RUN_DATETIME
DUID
INTERMITTENT_GEN_FCST_DATA
RUN_DATETIME
DUID
INTERVAL_DATETIME
MTPASA_INTERMITTENT_LIMIT
TRADINGDATE
DUID
OFFERDATETIME
MTPASA_INTERMITTENT_AVAIL
TRADINGDATE
DUID
OFFERDATETIME
CLUSTERID
INTERMITTENT_P5_RUN
RUN_DATETIME
DUID
OFFERDATETIME
ORIGIN
FORECAST_PRIORITY
INTERMITTENT_P5_PRED
RUN_DATETIME
DUID
OFFERDATETIME
INTERVAL_DATETIME
ORIGIN
FORECAST_PRIORITY
INTERMITTENT_GEN_LIMIT_DAY
TRADINGDATE
DUID
OFFERDATETIME
INTERMITTENT_GEN_LIMIT
TRADINGDATE
DUID
OFFERDATETIME
PERIODID
INTERMITTENT_DS_RUN
RUN_DATETIME
DUID
OFFERDATETIME
ORIGIN
FORECAST_PRIORITY
INTERMITTENT_DS_PRED
RUN_DATETIME
DUID
OFFERDATETIME
INTERVAL_DATETIME
ORIGIN
FORECAST_PRIORITY
INTERMITTENT_CLUSTER_AVAIL_DAY
TRADINGDATE
DUID
OFFERDATETIME
CLUSTERID
DEMANDOPERATIONALFORECAST
INTERVAL_DATETIME
REGIONID
DEMANDOPERATIONALACTUAL
INTERVAL_DATETIME
REGIONID
ROOFTOP_PV_FORECAST
VERSION_DATETIME
REGIONID
INTERVAL_DATETIME
ROOFTOP_PV_ACTUAL
INTERVAL_DATETIME
TYPE
REGIONID
INTERMITTENT_CLUSTER_AVAIL
TRADINGDATE
DUID
OFFERDATETIME
CLUSTERID
PERIODID
INTERMITTENT_GEN_SCADA
RUN_DATETIME
DUID
SCADA_TYPE

5.3 Table: INTERMITTENT_GEN_FCST_DATA

Name	INTERMITTENT_GEN_FCST_DATA
Comment	Stores the forecast generation (MW) for each interval within a given forecast of an intermittent generator.

5.3.1 Description

Source

INTERMITTENT_GEN_FCST_DATA updates every 30 minutes when AEMO issues a new 30-minute forecast of wind generation out to 8 days ahead.

Volume

~1,500,000 rows per generator per year

5.3.2 Notes

Name	Comment	Value
Visibility		Private

5.3.3 Primary Key Columns

Name

RUN_DATETIME

DUID

INTERVAL_DATETIME

5.3.4 Content

Name	Data Type	Mandatory	Comment
RUN_DATETIME	DATE	X	Date Time of forecast (AEST).
DUID	VARCHAR2(20)	X	Identifier of the intermittent generator

INTERVAL_DATETIME	DATE	X	Date Time (AEST) of the halfhour interval being forecast
POWERMEAN	NUMBER(9,3)		The average forecast value in MW at the interval end
POWERPOE50	NUMBER(9,3)		50% probability of exceedance forecast value in MW at the interval end
POWERPOELOW	NUMBER(9,3)		90% probability of exceedance forecast value in MW at the interval end
POWERPOEHIGH	NUMBER(9,3)		10% probability of exceedance forecast value in MW at the interval end
LASTCHANGED	DATE		Date Time record was created

5.4 Table: ROOFTOP_PV_FORECAST

Name	ROOFTOP_PV_FORECAST
Comment	Regional forecasts of Rooftop Solar generation across the half-hour intervals over 8 days

5.4.1 Notes

Name	Comment	Value
Visibility		Public

5.4.2 Primary Key Columns

Name

VERSION_DATETIME

INTERVAL_DATETIME

REGIONID

5.4.3 Index Columns

Name

VERSION_DATETIME

INTERVAL_DATETIME

REGIONID

5.4.4 Content

Name	Data Type	Mandatory	Comment
VERSION_DATETIME	DATE	X	Date time this forecast was

			produced
REGIONID	VARCHAR2(20)	X	Region identifier
INTERVAL_DATETIME	DATE	X	The forecast half-hour interval (time ending)
POWERMEAN	NUMBER(12,3)		The average forecast value in MW at the interval end
POWERPOE50	NUMBER(12,3)		50% probability of exceedance forecast value in MW at the interval end
POWERPOELOW	NUMBER(12,3)		90% probability of exceedance forecast value in MW at the interval end
POWERPOEHIGH	NUMBER(12,3)		10% probability of exceedance forecast value in MW at the interval end
LASTCHANGED	DATE		Last date and time record changed

6 Package: DISPATCH

Name DISPATCH

Comment Results from a published Dispatch Run

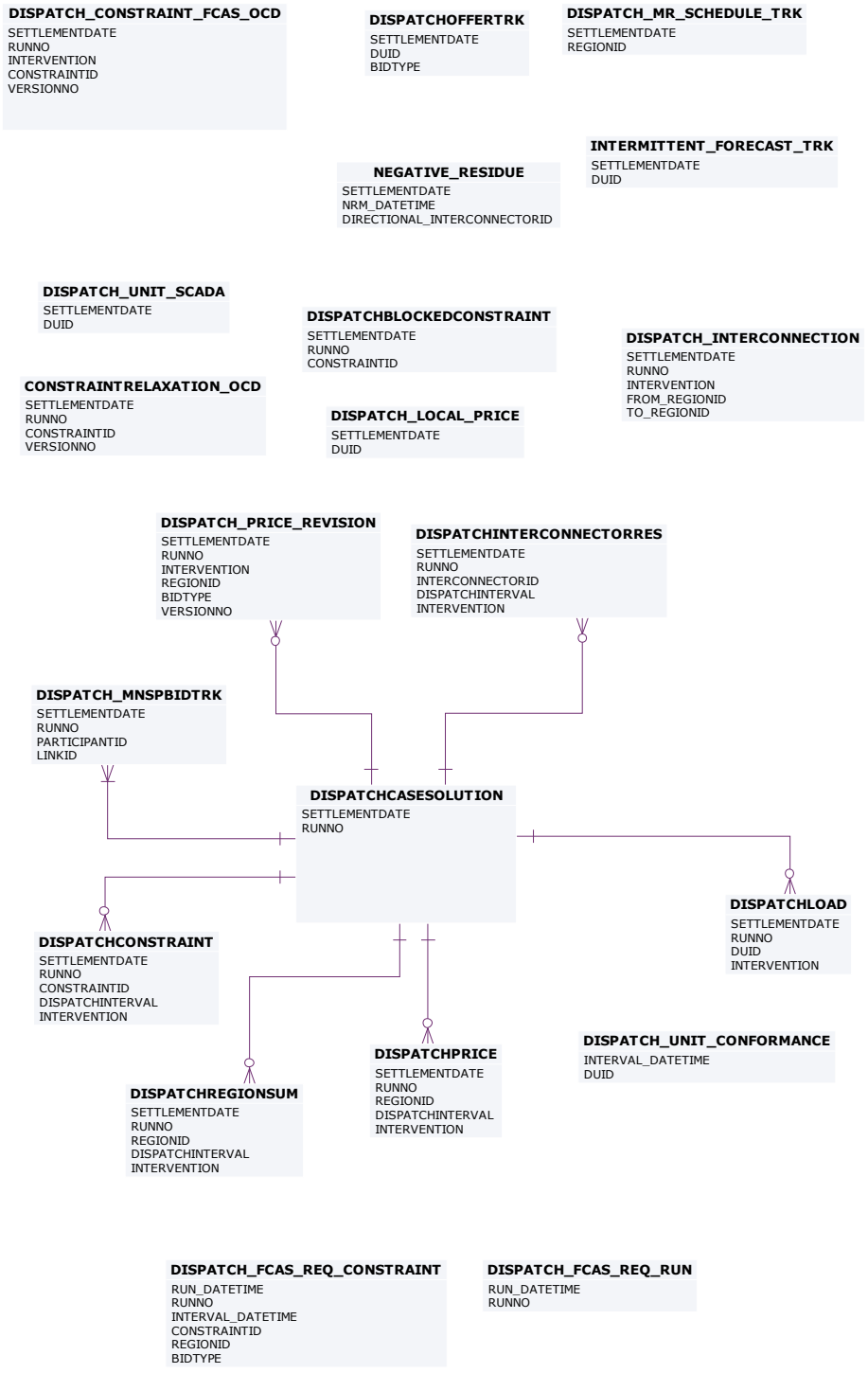
6.1 List of tables

Name	Comment	Visibility
DISPATCHLOAD	DISPATCHLOAD set out the current SCADA MW and target MW for each dispatchable unit, including relevant Frequency Control Ancillary Services (FCAS) enabling targets for each five minutes and additional fields to handle the new Ancillary Services functionality. Fast Start Plant status is indicated by dispatch mode.	Private & Public Next-Day
DISPATCHREGIONSUM	DISPATCHREGIONSUM sets out the 5-minute solution for each dispatch run for each region, including the Frequency Control Ancillary Services (FCAS) services provided. Additional fields are for the Raise Regulation and Lower Regulation Ancillary Services plus improvements to demand calculations.	Public

6.2 Diagram: Entities: Dispatch

6.2.1 Card of diagram Entities: Dispatch

Name	Entities: Dispatch
Code	ENTITIES__DISPATCH
Comment	


DISPATCH_CONSTRAINT_FCAS_OCD
SETTLEMENTDATE
RUNNO
INTERVENTION
CONSTRAINTID
VERSIONNO
DISPATCHOFFERTRK
SETTLEMENTDATE
DUID
BIDTYPE
DISPATCH_MR_SCHEDULE_TRK
SETTLEMENTDATE
REGIONID
INTERMITTENT_FORECAST_TRK
SETTLEMENTDATE
DUID
NEGATIVE_RESIDUE
SETTLEMENTDATE
NRM_DATETIME
DIRECTIONAL_INTERCONNECTORID
DISPATCH_UNIT_SCADA
SETTLEMENTDATE
DUID
DISPATCHBLOCKEDCONSTRAINT
SETTLEMENTDATE
RUNNO
CONSTRAINTID
DISPATCH_INTERCONNECTION
SETTLEMENTDATE
RUNNO
INTERVENTION
FROM_REGIONID
TO_REGIONID
CONSTRAINTRELAXATION_OCD
SETTLEMENTDATE
RUNNO
CONSTRAINTID
VERSIONNO
DISPATCH_LOCAL_PRICE
SETTLEMENTDATE
DUID
DISPATCH_PRICE_REVISION
SETTLEMENTDATE
RUNNO
INTERVENTION
REGIONID
BIDTYPE
VERSIONNO
DISPATCHINTERCONNECTORRES
SETTLEMENTDATE
RUNNO
INTERCONNECTORID
DISPATCHINTERVAL
INTERVENTION
DISPATCH_MNSPBIDTRK
SETTLEMENTDATE
RUNNO
PARTICIPANTID
LINKID
DISPATCHCASESOLUTION
SETTLEMENTDATE
RUNNO
DISPATCHLOAD
SETTLEMENTDATE
RUNNO
DUID
INTERVENTION
DISPATCHCONSTRAINT
SETTLEMENTDATE
RUNNO
CONSTRAINTID
DISPATCHINTERVAL
INTERVENTION
DISPATCHPRICE
SETTLEMENTDATE
RUNNO
REGIONID
DISPATCHINTERVAL
INTERVENTION
DISPATCH_UNIT_CONFORMANCE
INTERVAL_DATETIME
DUID
DISPATCHREGIONSUM
SETTLEMENTDATE
RUNNO
REGIONID
DISPATCHINTERVAL
INTERVENTION
DISPATCH_FCAS_REQ_CONSTRAINT
RUN_DATETIME
RUNNO
INTERVAL_DATETIME
CONSTRAINTID
REGIONID
BIDTYPE
DISPATCH_FCAS_REQ_RUN
RUN_DATETIME
RUNNO

6.3 Table: DISPATCHLOAD

Name	DISPATCHLOAD
Comment	DISPATCHLOAD set out the current SCADA MW and target MW for each dispatchable unit, including relevant Frequency Control Ancillary Services (FCAS) enabling targets for each five minutes and additional fields to handle the new Ancillary Services functionality. Fast Start Plant status is indicated by dispatch mode.

6.3.1 Description

DISPATCHLOAD data is confidential for the current day, showing own details for participant and becomes public after close of business yesterday, and is available to all participants.

Source

DISPATCHLOAD shows data for every 5 minutes for all units, even zero targets.

Volume

Expect 40-50,000 records per day. All units are repeated, even zero targets.

Note

** A flag exists for each ancillary service type such that a unit trapped or stranded in one or more service type can be immediately identified. The flag is defined using the low 3 bits as follows:

Flag Name	Bit	Description
Enabled	0	The unit is enabled to provide this ancillary service type.
Trapped	1	The unit is enabled to provide this ancillary service type, however the profile for this service type is causing the unit to be trapped in the energy market.
Stranded	2	The unit is bid available to provide this ancillary service type, however, the unit is operating in the energy market outside of the profile for this service type and is stranded from providing this service.

Interpretation of the bit-flags as a number gives the following possibilities (i.e. other combinations are not possible):

Numeric Value	Bit (2,1,0)	Meaning
0	000	Not stranded, not trapped, not enabled.
1	001	Not stranded, not trapped, is enabled.
3	011	Not stranded, is trapped, is enabled.
4	100	Is stranded, not trapped, not enabled.

For example, testing for availability can be done by checking for odd (=available) or even (=unavailable) number (e.g. `mod(flag,2)` results in 0 for unavailable and 1 for available).

*** "Actual FCAS availability" is determined in a post-processing step based on the energy target (TotalCleared) and bid FCAS trapezium for that interval. However, if the unit is outside the bid FCAS trapezium at the start of the interval (InitialMW), the "Actual FCAS availability" is set to zero. For regulation services, the trapezium is the most restrictive of the bid/SCADA trapezium values.

6.3.2 Notes

Name	Comment	Value
Visibility		Private & Public Next-Day

6.3.3 Primary Key Columns

Name

SETTLEMENTDATE

RUNNO

DUID

INTERVENTION

6.3.4 Index Columns

Name

LASTCHANGED

6.3.5 Index Columns

Name

DUID

LASTCHANGED

6.3.6 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	Market date and time starting at

			04:05
RUNNO	NUMBER(3,0)	X	Dispatch run no; always 1
DUID	VARCHAR2(10)	X	Dispatchable unit identifier
TRADETYPE	NUMBER(2,0)		Not used
DISPATCHINTERVAL	NUMBER(22,0)		Dispatch period identifier, from 001 to 288 in format YYYYMMDDPPP.
INTERVENTION	NUMBER(2,0)	X	Intervention flag if intervention run
CONNECTIONPOINTID	VARCHAR2(12)		Connection point identifier for DUID
DISPATCHMODE	NUMBER(2,0)		Dispatch mode for fast start plant (0 to 4).
AGCSTATUS	NUMBER(2,0)		AGC Status from EMS * 1 = on * 0 = off
INITIALMW	NUMBER(15,5)		Initial MW at start of period. Negative values when Bi-directional Unit start from importing power, otherwise positive.
TOTALCLEARED	NUMBER(15,5)		Target MW for end of period. Negative values when Bi-directional Unit is importing power, otherwise positive.
RAMPDOWNRATE	NUMBER(15,5)		Ramp down rate used in dispatch (lesser of bid or telemetered rate).
RAMPUPRATE	NUMBER(15,5)		Ramp up rate (lesser of bid or telemetered rate).

LOWER5MIN	NUMBER(15,5)		Lower 5 min reserve target
LOWER60SEC	NUMBER(15,5)		Lower 60 sec reserve target
LOWER6SEC	NUMBER(15,5)		Lower 6 sec reserve target
RAISE5MIN	NUMBER(15,5)		Raise 5 min reserve target
RAISE60SEC	NUMBER(15,5)		Raise 60 sec reserve target
RAISE6SEC	NUMBER(15,5)		Raise 6 sec reserve target
DOWNEPF	NUMBER(15,5)		Not Used
UPEPF	NUMBER(15,5)		Not Used
MARGINAL5MINVALUE	NUMBER(15,5)		Marginal $ value for 5 min
MARGINAL60SECVALUE	NUMBER(15,5)		Marginal $ value for 60 seconds
MARGINAL6SECVALUE	NUMBER(15,5)		Marginal $ value for 6 seconds
MARGINALVALUE	NUMBER(15,5)		Marginal $ value for energy
VIOLATION5MINDEGREE	NUMBER(15,5)		Violation MW 5 min
VIOLATION60SECDEGREE	NUMBER(15,5)		Violation MW 60 seconds
VIOLATION6SECDEGREE	NUMBER(15,5)		Violation MW 6 seconds
VIOLATIONDEGREE	NUMBER(15,5)		Violation MW energy
LASTCHANGED	DATE		Last date and time record changed
LOWERREG	NUMBER(15,5)		Lower Regulation reserve target
RAISEREG	NUMBER(15,5)		Raise Regulation reserve target
AVAILABILITY	NUMBER(15,5)		For Scheduled units, this is the MAXAVAIL bid availability For Semi-scheduled units, this is the lower of MAXAVAIL bid availability and UIGF

RAISE6SECFLAGS	NUMBER(3,0)		Raise 6sec status flag - see
RAISE60SECFLAGS	NUMBER(3,0)		Raise 60sec status flag - see
RAISE5MINFLAGS	NUMBER(3,0)		
RAISEREGFLAGS	NUMBER(3,0)		Raise Reg status flag - see
LOWER6SECFLAGS	NUMBER(3,0)		Lower 6sec status flag - see
LOWER60SECFLAGS	NUMBER(3,0)		Lower 60sec status flag
LOWER5MINFLAGS	NUMBER(3,0)		Lower 5min status flag
LOWERREGFLAGS	NUMBER(3,0)		Lower Reg status flag - see
RAISEREGAVAILABILITY	NUMBER(15,5)		RaiseReg availability - minimum of bid and telemetered value
RAISEREGENABLEMENTMAX	NUMBER(15,5)		RaiseReg enablement max point - minimum of bid and telemetered value
RAISEREGENABLEMENTMIN	NUMBER(15,5)		RaiseReg Enablement Min point - maximum of bid and telemetered value
LOWERREGAVAILABILITY	NUMBER(15,5)		Lower Reg availability - minimum of bid and telemetered value
LOWERREGENABLEMENTMAX	NUMBER(15,5)		Lower Reg enablement Max point - minimum of bid and telemetered value
LOWERREGENABLEMENTMIN	NUMBER(15,5)		Lower Reg Enablement Min point - maximum of bid and telemetered value
RAISE6SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise 6sec availability
RAISE60SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise 60sec availability

RAISE5MINACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise 5min availability
RAISEREGACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise reg availability
LOWER6SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower 6sec availability
LOWER60SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower 60sec availability
LOWER5MINACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower 5min availability
LOWERREGACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower reg availability
SEMIDISPATCHCAP	NUMBER(3,0)		Boolean representation flagging if the Target is Capped
DISPATCHMODETIME	NUMBER(4,0)		Minutes for which the unit has been in the current DISPATCHMODE. From NEMDE TRADERSOLUTION element FSTARGETMODETIME attribute.
CONFORMANCE_MODE	NUMBER(6,0)		Mode specific to units within an aggregate. 0 - no monitoring, 1 - aggregate monitoring, 2 - individual monitoring due to constraint
UIGF	NUMBER(15,5)		For Semi-Scheduled units. Unconstrained Intermittent Generation Forecast value provided to NEMDE
RAISE1SEC	NUMBER(15,5)		Dispatched Raise1Sec - TraderSolution element R1Target attribute

RAISE1SECFLAGS	NUMBER(3,0)		TraderSolution element R1Flags attribute
LOWER1SEC	NUMBER(15,5)		Dispatched Lower1Sec - TraderSolution element L1Target attribute
LOWER1SECFLAGS	NUMBER(3,0)		TraderSolution element L1Flags attribute
RAISE1SECACTUALAVAILABILITY	NUMBER(16,6)		Trapezium adjusted Raise 1Sec Availability
LOWER1SECACTUALAVAILABILITY	NUMBER(16,6)		Trapezium adjusted Lower 1Sec Availability
INITIAL_ENERGY_STORAGE	NUMBER(15,5)		The energy storage at the start of this dispatch interval(MWh)
ENERGY_STORAGE	NUMBER(15,5)		The projected energy storage based on cleared energy and regulation FCAS dispatch(MWh)
MIN_AVAILABILITY	NUMBER(15,5)		BDU only. Load side availability (BidOfferPeriod.MAXAVAIL where DIRECTION = LOAD)

6.4 Table: DISPATCHREGIONSUM

Name	DISPATCHREGIONSUM
Comment	DISPATCHREGIONSUM sets out the 5-minute solution for each dispatch run for each region, including the Frequency Control Ancillary Services (FCAS) services provided. Additional fields are for the Raise Regulation and Lower Regulation Ancillary Services plus improvements to demand calculations.

6.4.1 Description

DISPATCHREGIONSUM is public data, and is available to all participants.

Source

DISPATCHREGIONSUM updates every 5 minutes.

Note

For details of calculations about load calculations, refer to Chapter 3 of the "Statement of Opportunities"

*** "Actual FCAS availability" is determined in a post-processing step based on the energy target (TotalCleared) and bid FCAS trapezium for that interval. However, if the unit is outside the bid FCAS trapezium at the start of the interval (InitialMW), the "Actual FCAS availability" is set to zero. For regulation services, the trapezium is the most restrictive of the bid/SCADA trapezium values.

From 16 February 2006, the old reserve values are no longer populated (i.e. are null), being LORSurplus and LRCSurplus. For more details on the changes to Reporting of Reserve Condition Data, refer to AEMO Communication 2042. For the best available indicator of reserve condition in each of the regions of the NEM for each trading interval, refer to the latest run of the Pre-Dispatch PASA (see table PDPASA_REGIONSOLUTION).

6.4.2 Notes

Name	Comment	Value
Visibility		Public

6.4.3 Primary Key Columns

Name
SETTLEMENTDATE
RUNNO
REGIONID
DISPATCHINTERVAL

INTERVENTION

6.4.4 Index Columns

Name

LASTCHANGED

6.4.5 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	Market date and time starting at 04:05
RUNNO	NUMBER(3,0)	X	Dispatch run no; always 1
REGIONID	VARCHAR2(10)	X	Region Identifier
DISPATCHINTERVAL	NUMBER(22,0)	X	Dispatch period identifier, from 001 to 288 in format YYYYMMDDPPP.
INTERVENTION	NUMBER(2,0)	X	Manual Intervention flag
TOTALDEMAND	NUMBER(15,5)		Demand (less loads)
AVAILABLEGENERATION	NUMBER(15,5)		Aggregate generation bid available in region
AVAILABLELOAD	NUMBER(15,5)		Aggregate load bid available in region
DEMANDFORECAST	NUMBER(15,5)		5 minute forecast adjust
DISPATCHABLEGENERATION	NUMBER(15,5)		Dispatched Generation

DISPATCHABLELOAD	NUMBER(15,5)		Dispatched Load (add to total demand to get inherent region demand).
NETINTERCHANGE	NUMBER(15,5)		Net interconnector flow from the regional reference node
EXCESSGENERATION	NUMBER(15,5)		MW quantity of excess
LOWER5MINDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Lower 5 min MW dispatch
LOWER5MINIMPORT	NUMBER(15,5)		Not used since Dec 2003. Lower 5 min MW imported
LOWER5MINLOCALDISPATCH	NUMBER(15,5)		Lower 5 min local dispatch
LOWER5MINLOCALPRICE	NUMBER(15,5)		Not used since Dec 2003. Local price of lower 5 min
LOWER5MINLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 5 min local requirement
LOWER5MINPRICE	NUMBER(15,5)		Not used since Dec 2003. Regional price of lower 5 min
LOWER5MINREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 5 min total requirement
LOWER5MINSUPPLYPRICE	NUMBER(15,5)		Not used since Dec 2003. Supply price of lower 5 min
LOWER60SECDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Lower 60 sec MW dispatch
LOWER60SECIMPORT	NUMBER(15,5)		Not used since Dec 2003. Lower 60 sec MW imported
LOWER60SECLOCALDISPATCH	NUMBER(15,5)		Lower 60 sec local dispatch

LOWER60SECLOCALPRICE	NUMBER(15,5)		Not used since Dec 2003. Local price of lower 60 sec
LOWER60SECLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 60 sec local requirement
LOWER60SECPRICE	NUMBER(15,5)		Not used since Dec 2003. Regional price of lower 60 sec
LOWER60SECREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 60 sec total requirement
LOWER60SECSUPPLYPRICE	NUMBER(15,5)		Not used since Dec 2003. Supply price of lower 60 sec
LOWER6SECDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Lower 6 sec MW dispatch
LOWER6SECIMPORT	NUMBER(15,5)		Not used since Dec 2003. Lower 6 sec MW imported
LOWER6SECLOCALDISPATCH	NUMBER(15,5)		Lower 6 sec local dispatch
LOWER6SECLOCALPRICE	NUMBER(15,5)		Not used since Dec 2003. Local price of lower 6 sec
LOWER6SECLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 6 sec local requirement
LOWER6SECPRICE	NUMBER(15,5)		Not used since Dec 2003. Regional price of lower 6 sec
LOWER6SECREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 6 sec total requirement
LOWER6SECSUPPLYPRICE	NUMBER(15,5)		Not used since Dec 2003. Supply price of lower 6 sec
RAISE5MINDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Raise 5 min MW dispatch

RAISE5MINIMPORT	NUMBER(15,5)		Not used since Dec 2003. Raise 5 min MW imported
RAISE5MINLOCALDISPATCH	NUMBER(15,5)		Raise 5 min local dispatch
RAISE5MINLOCALPRICE	NUMBER(15,5)		Not used since Dec 2003. Raise price of lower 5 min
RAISE5MINLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 5 min local requirement
RAISE5MINPRICE	NUMBER(15,5)		Not used since Dec 2003. Regional price of raise 5 min
RAISE5MINREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 5 min total requirement
RAISE5MINSUPPLYPRICE	NUMBER(15,5)		Not used since Dec 2003. Supply price of raise 5 min
RAISE60SECDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Raise 60 sec MW dispatch
RAISE60SECIMPORT	NUMBER(15,5)		Not used since Dec 2003. Raise 60 sec MW imported
RAISE60SECLOCALDISPATCH	NUMBER(15,5)		Raise 60 sec local dispatch
RAISE60SECLOCALPRICE	NUMBER(15,5)		Not used since Dec 2003. Local price of raise 60 sec
RAISE60SECLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 60 sec local requirement
RAISE60SECPRICE	NUMBER(15,5)		Not used since Dec 2003. Regional price of raise 60 sec
RAISE60SECREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 60 sec total requirement

RAISE60SECSUPPLYPRICE	NUMBER(15,5)		Not used since Dec 2003. Supply price of raise 60 sec
RAISE6SECDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Raise 6 sec MW dispatch
RAISE6SECIMPORT	NUMBER(15,5)		Not used since Dec 2003. Raise 6 sec MW imported
RAISE6SECLOCALDISPATCH	NUMBER(15,5)		Raise 6 sec local dispatch
RAISE6SECLOCALPRICE	NUMBER(15,5)		Not used since Dec 2003. Local price of raise 6 sec
RAISE6SECLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 6 sec local requirement
RAISE6SECPRICE	NUMBER(15,5)		Not used since Dec 2003. Regional price of raise 6 sec
RAISE6SECREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 6 sec total requirement
RAISE6SECSUPPLYPRICE	NUMBER(15,5)		Not used since Dec 2003. Supply price of raise 6 sec
AGGEGATEDISPATCHERROR	NUMBER(15,5)		Calculated dispatch error
AGGREGATEDISPATCHERROR	NUMBER(15,5)		Calculated dispatch error
LASTCHANGED	DATE		Last date and time record changed
INITIALSUPPLY	NUMBER(15,5)		Sum of initial generation and import for region
CLEAREDSUPPLY	NUMBER(15,5)		Sum of cleared generation and import for region
LOWERREGIMPORT	NUMBER(15,5)		Not used since Dec 2003. Lower

			Regulation MW imported
LOWERREGLOCALDISPATCH	NUMBER(15,5)		Lower Regulation local dispatch
LOWERREGLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Lower Regulation local requirement
LOWERREGREQ	NUMBER(15,5)		Not used since Dec 2003. Lower Regulation total requirement
RAISEREGIMPORT	NUMBER(15,5)		Not used since Dec 2003. Raise Regulation MW imported
RAISEREGLOCALDISPATCH	NUMBER(15,5)		Raise Regulation local dispatch
RAISEREGLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Raise Regulation local requirement
RAISEREGREQ	NUMBER(15,5)		Not used since Dec 2003. Raise Regulation total requirement
RAISE5MINLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 5 min local requirement
RAISEREGLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise Reg local requirement
RAISE60SECLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 60 sec local requirement
RAISE6SECLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 6 sec local requirement
LOWER5MINLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 5 min local requirement

LOWERREGLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower Reg local requirement
LOWER60SECLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 60 sec local requirement
LOWER6SECLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 6 sec local requirement
RAISE5MINVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 5 min requirement
RAISEREGVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise Reg requirement
RAISE60SECVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 60 seconds requirement
RAISE6SECVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 6 seconds requirement
LOWER5MINVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 5 min requirement
LOWERREGVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower Reg requirement
LOWER60SECVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 60 seconds requirement
LOWER6SECVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 6 seconds requirement
RAISE6SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise 6sec availability

RAISE60SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise 60sec availability
RAISE5MINACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise 5min availability
RAISEREGACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise reg availability
LOWER6SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower 6sec availability
LOWER60SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower 60sec availability
LOWER5MINACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower 5min availability
LOWERREGACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower reg availability
LORSURPLUS	NUMBER(16,6)		Not in use after 17 Feb 2006. Total short term generation capacity reserve used in assessing lack of reserve condition
LRCSURPLUS	NUMBER(16,6)		Not in use after 17 Feb 2006. Total short term generation capacity reserve above the stated low reserve condition requirement
TOTALINTERMITTENTGENERATION	NUMBER(15,5)		Allowance made for non-scheduled generation in the demand forecast (MW).
DEMAND_AND_NONSCHEDGEN	NUMBER(15,5)		Sum of Cleared Scheduled generation, imported generation (at the region boundary) and allowances made for non-scheduled generation (MW).
UIGF	NUMBER(15,5)		Regional aggregated

			Unconstrained Intermittent Generation Forecast of Semi-scheduled generation (MW).
SEMISCHEDULE_CLEAREDMW	NUMBER(15,5)		Regional aggregated Semi-Schedule generator Cleared MW
SEMISCHEDULE_COMPLIANCEMW	NUMBER(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where Semi-Dispatch cap is enforced
SS_SOLAR_UIGF	Number(15,5)		Regional aggregated Unconstrained Intermittent Generation Forecast of Semi-scheduled generation (MW) where the primary fuel source is solar
SS_WIND_UIGF	Number (15,5)		Regional aggregated Unconstrained Intermittent Generation Forecast of Semi-scheduled generation (MW) where the primary fuel source is wind
SS_SOLAR_CLEAREDMW	Number(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where the primary fuel source is solar
SS_WIND_CLEAREDMW	Number(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where the primary fuel source is wind
SS_SOLAR_COMPLIANCEMW	Number(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where Semi-Dispatch cap is enforced and the primary fuel source is solar
SS_WIND_COMPLIANCEM	Number(15,5)		Regional aggregated Semi-Schedule generator Cleared MW

W			where Semi-Dispatch cap is enforced and the primary fuel source is wind
WDR_INITIALMW	NUMBER(15,5)		Regional aggregated MW value at start of interval for Wholesale Demand Response (WDR) units
WDR_AVAILABLE	NUMBER(15,5)		Regional aggregated available MW for Wholesale Demand Response (WDR) units
WDR_DISPATCHED	NUMBER(15,5)		Regional aggregated dispatched MW for Wholesale Demand Response (WDR) units
SS_SOLAR_AVAILABILITY	NUMBER(15,5)		For Semi-Scheduled units. Aggregate Energy Availability from Solar units in that region
SS_WIND_AVAILABILITY	NUMBER(15,5)		For Semi-Scheduled units. Aggregate Energy Availability from Wind units in that region
RAISE1SECLOCALDISPATCH	NUMBER(15,5)		Total Raise1Sec Dispatched in Region - RegionSolution element R1Dispatch attribute
LOWER1SECLOCALDISPATCH	NUMBER(15,5)		Total Lower1Sec Dispatched in Region - RegionSolution element L1Dispatch attribute
RAISE1SECACTUALAVAILABILITY	NUMBER(16,6)		Trapezium adjusted Raise1Sec availability (summated from UnitSolution)
LOWER1SECACTUALAVAILABILITY	NUMBER(16,6)		Trapezium adjusted Lower1Sec availability (summated from UnitSolution)
BDU_ENERGY_STORAGE	NUMBER(15,5)		Regional aggregated energy storage where the DUID type is

			BDU (MWh)
BDU_MIN_AVAIL	NUMBER(15,5)		Total available load side BDU summated for region (MW)
BDU_MAX_AVAIL	NUMBER(15,5)		Total available generation side BDU summated for region (MW)
BDU_CLEAREDMW_GEN	NUMBER(15,5)		Regional aggregated cleared MW where the DUID type is BDU. Net of export (Generation)
BDU_CLEAREDMW_LOAD	NUMBER(15,5)		Regional aggregated cleared MW where the DUID type is BDU. Net of import (Load)
BDU_INITIAL_ENERGY_STORAGE	NUMBER(15,5)		Energy Storage for BDU at the start of the interval(MWh) - Region Aggregated
DECGEN_INITIAL_ENERGY_STORAGE	NUMBER(15,5)		Energy storage for Daily Energy Constrained Scheduled Generating Units at the start of the interval(MWh) - Region Aggregated

7 Package: FPP

Name FPP

Comment Results from a published Frequency Performance Payments (FPP) Run. The FPP calculation runs performs every trading interval (typically 5 minutes, but different for P5MIN / PREDISPATCH) and input data feeding into the calculations. The output data from the calculations is published on that same interval. There are some tables that operate on different frequencies (e.g. P5MIN / PREDISPATCH) as well as some data becoming public the following market day. For further details please see the FPP procedure and supporting documentation.

7.1 List of tables

Name	Comment	Visibility
FPP_CONTRIBUTION_FACTOR	This report delivers the calculated contribution factor value for each 5 minute trading interval for each constraint and FPP unit	Private & Public Next-Day
FPP_FCAS_SUMMARY	This report delivers a summary of FCAS requirements as used by the FPP calculation (i.e. only RAISEREG / LOWERREG bid types)	Public
FPP_FORECAST_DEFAULT_CF	This report delivers the forecast default contribution factors (DCF) effective for a billing period (aligned to the settlement week)	Public
FPP_HIST_REGION_PERFORMANCE	This report delivers the historical region performance calculated based on a historical period and effective for a billing period (aligned to the settlement week). This calculated historical region performance calculation is an input into the constraint level residual default contribution factor (DCF) which is published in	Public

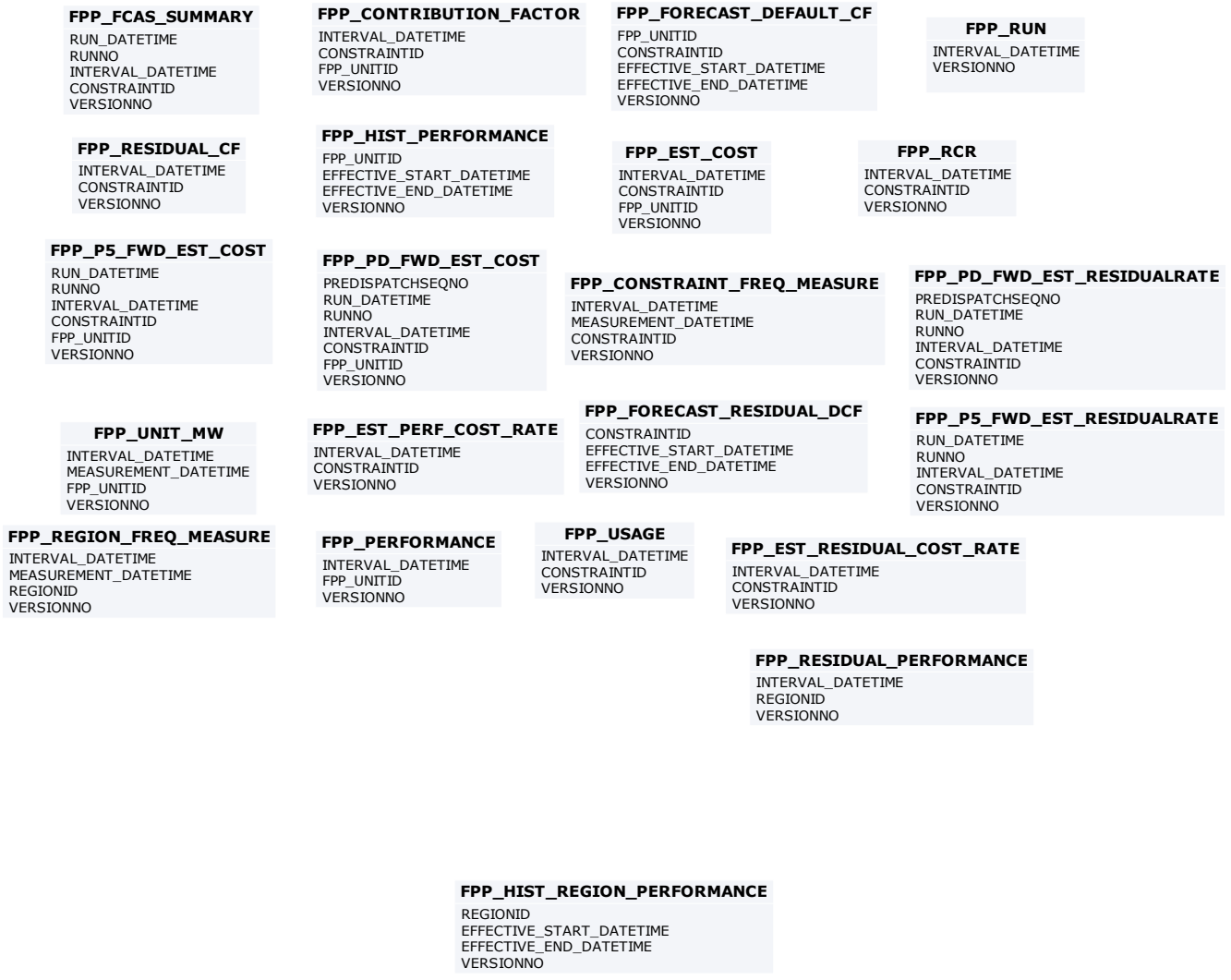
	FPP_FORECAST_RESIDUAL_DCF	
FPP_P5_FWD_EST_COST	This report delivers the forward estimated unit cost based on P5min runs. These high-level estimates (i.e. assuming that all is unused FCAS) will be provided for each constraint for each 5 minute pre-dispatch interval.	Private
FPP_P5_FWD_EST_RESIDUALRATE	This report delivers the forward estimated residual cost rate based on P5min runs. These high-level estimates (i.e. assuming that all is unused FCAS) will be provided for each constraint for each 5 minute pre-dispatch interval.	Public
FPP_PD_FWD_EST_COST	This report delivers the forward estimated unit cost based on PREDISPATCH runs. These high-level estimates (i.e. assuming that all is unused FCAS) will be provided for each constraint for each 30 minute pre-dispatch interval.	Private
FPP_PD_FWD_EST_RESIDUALRATE	This report delivers the forward estimated residual cost rate based on PREDISPATCH runs. These high-level estimates (i.e. assuming that all is unused FCAS) will be provided for each constraint for each 30 minute pre-dispatch interval.	Public
FPP_REGION_FREQ_MEASURE	This report delivers the curated 4 second frequency deviation and frequency measure data for each region	Public
FPP_RUN	This report delivers details of the 5-minute FPP calculation engine success failure outcome saved in FPP database	Public
FPP_UNIT_MW	This report delivers the curated 4 second	Private &

	measurement MW data for each FPP unit	Public Next-Day
FPP_USAGE	This report delivers the calculated usage for each constraint for each 5 minute trading interval	Public

7.2 Diagram: Entities: FPP

7.2.1 Card of diagram Entities: FPP

Name	Entities: FPP
Code	ENTITIES__FPP
Comment	



7.3 Table: FPP_CONTRIBUTION_FACTOR

Name	FPP_CONTRIBUTION_FACTOR
Comment	This report delivers the calculated contribution factor value for each 5 minute trading interval for each constraint and FPP unit

7.3.1 Notes

Name	Comment	Value
Visibility		Private & Public Next-Day

7.3.2 Primary Key Columns

Name

INTERVAL_DATETIME

CONSTRAINTID

FPP_UNITID

VERSIONNO

7.3.3 Content

Name	Data Type	Mandatory	Comment
INTERVAL_DATETIME	DATE	X	Date and time of the trading interval (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time)
CONSTRAINTID	VARCHAR2(20)	X	Constraint ID (binding constraint ID from FCAS data used in FPP calculations)

FPP_UNITID	VARCHAR2(20)	X	FPP Unit ID (registered DUID/ TNI)
VERSIONNO	NUMBER(5)	X	Version (FPP run number from the FPP database)
BIDTYPE	VARCHAR2(10)		Bid type (the bid type saved in relation to constraint ID from FCAS data used in FPP calculations)
CONTRIBUTION_FACTOR	NUMBER(18,8)		Contribution Factor (the calculated contribution factor for the FPP unit and constraint ID for that trading interval) - for further details please see the FPP procedure document
NEGATIVE_CONTRIBUTION_FACTOR	NUMBER(18,8)		Negative Contribution Factor (the calculated negative contribution factor for the FPP unit and constraint ID for that trading interval) - for further details please see the FPP procedure document
DEFAULT_CONTRIBUTION_FACTOR	NUMBER(18,8)		The Default Contribution Factor (the calculated default contribution factor based on historical performance for the FPP unit and constraint ID for that trading interval) that is effective for this trading interval, which joins back to FPP_FORECAST_DEFAULT_CF - for further details please see the FPP procedure document
CF_REASON_FLAG	NUMBER(5)		The reason flag showing the decision matrix for the contribution factor (CF) Supported values are: 0 = CF is calculated based on good input data 1 = CF is 0 because it is not primary in the group 2 = CF is not for the DUID but for the whole

			group 4 = CF is calculated based on substitute performance 8 = CF is 0 because FM is unreliable. 16 = CF is 0 because more than 50 percent input is bad or not available.
CF_ABS_POSITIVE_PERF_TOTAL	NUMBER(18,8)		The sum of absolute positive performance in MWHz for the combination of constraint / bid type (raise or lower). This is used as the denominator in normalising contribution factors (CF) where a units performance is positive. For further details please see the FPP procedure document. >0 = Performance was calculated for the units NULL = Performance for the units was unavailable
CF_ABS_NEGATIVE_PERF_TOTAL	NUMBER(18,8)		The sum of absolute negative performance in MWHz for the combination of constraint / bid type (raise or lower). This is used as the denominator in normalising contribution factors (CF) where a units performance is negative. For further details please see the FPP procedure document. >0 = Performance was calculated for the units NULL = Performance for the units was unavailable
NCF_ABS_NEGATIVE_PERF_TOTAL	NUMBER(18,8)		The sum of absolute negative performance in MWHz for the combination of constraint / bid type (raise or lower). This is used as the denominator in normalising negative contribution factors (NCF). For further details please see the FPP procedure

			document. >0 = Performance was calculated for the units NULL = Performance for the units was unavailable 0 = When NCF is zero (i.e. CF is positive), then this total will be represented as zero
PARTICIPANTID	VARCHAR2(20)		Participant ID
SETTLEMENTS_UNITID	VARCHAR2(50)		The Settlements Unit ID (registered DUID / TNI) Note that this SETTLEMENTS_UNITID is what is sent and used by the Settlements system, and may be different from the FPP_UNITID for non-scheduled loads where the FPP_UNITID may be a descriptive key, whereas what will be sent to Settlements as the SETTLEMENTS_UNITID will be the TNI code.

7.4 Table: FPP_FCAS_SUMMARY

Name FPP_FCAS_SUMMARY

Comment This report delivers a summary of FCAS requirements as used by the FPP calculation (i.e. only RAISEREG / LOWERREG bid types)

7.4.1 Notes

Name	Comment	Value
Visibility		Public

7.4.2 Primary Key Columns

Name

RUN_DATETIME

RUNNO

INTERVAL_DATETIME

CONSTRAINTID

VERSIONNO

7.4.3 Content

Name	Data Type	Mandatory	Comment
RUN_DATETIME	DATE	X	The run date and time of the dispatch case that was the trigger for the constraint FCAS processor execution
RUNNO	NUMBER(5)	X	The dispatch case run number that was the trigger for the constraint FCAS processor execution

INTERVAL_DATETIME	DATE	X	Date and time of the trading interval (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time)
CONSTRAINTID	VARCHAR2(20)	X	Constraint ID (binding constraint ID from FCAS data used in FPP calculations)
VERSIONNO	NUMBER(10)	X	The version number. In most cases this version will be the FPP run number from the FPP database, however there are some cases (like a new pricing run of the constraint FCAS processor received by the FPP system) where the version number listed here will be the financial estimate run number from the FPP database (this number is a different sequence from the FPP run number because there is no recalculation of performance or contribution, just changes to pricing / p regulation hence only the financial estimation is performed).
BIDTYPE	VARCHAR2(10)		Bid type (the bid type saved in relation to constraint ID from FCAS data used in FPP calculations, i.e. RAISEREG or LOWERREG)
RELEVANT_REGIONS	VARCHAR2(200)		Relevant regions (a comma separated list of the relevant regions for the constraint from FCAS data)
REGULATION_MW	NUMBER(18,8)		Enabled regulation MW used in the FPP calculation (from FPP database)

CONSTRAINT_MARGINAL_VALUE	NUMBER(18,8)		Marginal value in AUD/MW per hour related to the constraint (from FCAS data used for FPP calculations)
P_REGULATION	NUMBER(18,8)		P regulation value in AUD/MW per hour related to the constraint (from FCAS data used for FPP calculations also known as adjusted marginal value)
BASE_COST	NUMBER(18,8)		Base cost in AUD related to the constraint (from FCAS data used for FPP calculations)
TSFCAS	NUMBER(18,8)		TSFCAS in AUD related to the constraint (FCAS recovery amount related to the constraint also known as adjusted cost)
TOTAL_FPP	NUMBER(18,8)		Total amount of FPP in AUD changing hands related to the constraint (note that this is not the sum of FPP)
RCR	NUMBER(18,5)		RCR MW (the calculated requirement for corrective response from FPP database). Note that this is a join back to the FPP_RCR table.
USAGE_VALUE	NUMBER(18,8)		Usage (calculation of the proportion of regulation FCAS that was calculated to be used). Note that this is a join back to the FPP_USAGE table.

7.5 Table: FPP_FORECAST_DEFAULT_CF

Name FPP_FORECAST_DEFAULT_CF

Comment This report delivers the forecast default contribution factors (DCF) effective for a billing period (aligned to the settlement week)

7.5.1 Notes

Name	Comment	Value
Visibility		Public

7.5.2 Primary Key Columns

Name

FPP_UNITID

CONSTRAINTID

EFFECTIVE_START_DATETIME

EFFECTIVE_END_DATETIME

VERSIONNO

7.5.3 Content

Name	Data Type	Mandatory	Comment
FPP_UNITID	VARCHAR2(20)	X	FPP Unit ID (registered DUID/ TNI)
CONSTRAINTID	VARCHAR2(20)	X	Constraint ID (binding constraint ID from FCAS data used in FPP calculations)
EFFECTIVE_START_DATETI	DATE	X	Effective period start date and time (DD/MM/YYYY HH24:MI:SS) fixed

ME			to the UTC+10 time zone (NEM time) of the effective period for this default contribution factor related to the combination of FPP unit ID / constraint. This is the billing period over which these default contribution factors will be effective / applied. In most cases this will align to the settlement week, however there are some cases (like a new constraint) where the effective start date will be prorated to align with the change.
EFFECTIVE_END_DATETIME	DATE	X	Effective period end date and time (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time) of the effective period for this default contribution factor related to the combination of FPP unit ID / constraint. This is the billing period over which these default contribution factors will be effective / applied. Effective end date will align with the end of a settlement week.
VERSIONNO	NUMBER(10)	X	The version number. In most cases this version will be the historical performance calculation run number from the FPP database (which is different from the FPP run number), however there are some cases (like a new constraint) where the version number listed here will be the FPP run number from the FPP database (this will be where the effective start date time will be prorated to align with the detection of this change).

BIDTYPE	VARCHAR2(10)		Bid type (the bid type saved in relation to constraint ID from FCAS data used in FPP calculations)
REGIONID	VARCHAR2(20)		Region ID of the frequency deviation / frequency measure
DEFAULT_CONTRIBUTION_FACTOR	NUMBER(18,8)		Calculated default contribution factor from the historical performance period. For further details please see the FPP procedure document.
DCF_REASON_FLAG	NUMBER(5)		The reason flag showing the decision matrix for the default contribution factor (DCF)
DCF_ABS_NEGATIVE_PERF_TOTAL	NUMBER(18,8)		The sum of absolute negative performance in MWHz for the combination of constraint (raise or lower). This is used as the denominator in normalising default contribution factors (DCF) as the historical performance is always negative for DCF. For further details please see the FPP procedure document. >0 = Performance was calculated for the units NULL = Performance for the units was unavailable
SETTLEMENTS_UNITID	VARCHAR2(50)		The Settlements Unit ID (registered DUID / TNI) Note that this SETTLEMENTS_UNITID is what is sent and used by the Settlements system, and may be different from the FPP_UNITID for non-scheduled loads where the FPP_UNITID may be a descriptive key, whereas what will be sent to Settlements as the SETTLEMENTS_UNITID will be the

			TNI code.

7.6 Table: FPP_HIST_REGION_PERFORMANCE

Name	FPP_HIST_REGION_PERFORMANCE
Comment	This report delivers the historical region performance calculated based on a historical period and effective for a billing period (aligned to the settlement week). This calculated historical region performance calculation is an input into the constraint level residual default contribution factor (DCF) which is published in FPP_FORECAST_RESIDUAL_DCF

7.6.1 Notes

Name	Comment	Value
Visibility		Public

7.6.2 Primary Key Columns

Name

REGIONID

EFFECTIVE_START_DATETIME

EFFECTIVE_END_DATETIME

VERSIONNO

7.6.3 Content

Name	Data Type	Mandatory	Comment
REGIONID	VARCHAR2(20)	X	Region ID of the historical region performance
EFFECTIVE_START_DATETIME	DATE	X	Effective period start date and time (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time) of the effective period for this historical performance values

			related to the region ID. This is the billing period over which these historical performance values will be effective / applied over. This will align to the settlement week.
EFFECTIVE_END_DATETIME	DATE	X	Effective period end date and time (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time) of the effective period for this historical performance values related to the region ID. This is the billing period over which these historical performance values will be effective / applied over. This will align to the settlement week.
VERSIONNO	NUMBER(10)	X	Version (FPP historical performance calculation run number from the FPP database) Note that due to the these historical calculations, the version numbers listed here are different to the normal FPP run number version for trading interval calculations.
HIST_PERIOD_START_DATETIME	DATE		Historical period start date and time (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time) of the historical period for this historical performance calculation related to the region ID. This is the historical period of trading intervals that feed into the historical performance calculation. This will align to the settlement week.
HIST_PERIOD_END_DATETIME	DATE		Historical period end date and time (DD/MM/YYYY HH24:MI:SS)

			fixed to the UTC+10 time zone (NEM time) of the historical period for this historical performance calculation related to the region ID. This is the historical period of trading intervals that feed into the historical performance calculation. This will align to the settlement week.
REG_HIST_RAISE_PERFORMANCE	NUMBER(18,5)		Calculated regulation historical raise performance from the historical performance period (substitute raise performance when live performance is unavailable and default raise performance used for default contribution factor calculation) - please see the NER and FPP procedure documents for further information
REG_HIST_LOWER_PERFORMANCE	NUMBER(18,5)		Calculated regulation historical lower performance from the historical performance period (substitute lower performance when live performance is unavailable and default lower performance used for default contribution factor calculation) - please see the NER and FPP procedure documents for further information
FPP_HIST_RAISE_PERFORMANCE	NUMBER(18,5)		Calculated FPP historical raise performance from the historical performance period (substitute raise performance calculated used for negative contribution factor calculation when live performance is unavailable) - please see the NER and FPP procedure documents for

			further information
FPP_HIST_LOWER_PERFORMANCE	NUMBER(18,5)		Calculated FPP historical lower performance from the historical performance period (substitute lower performance calculated used for negative contribution factor calculation when live performance is unavailable) - please see the NER and FPP procedure documents for further information

7.7 Table: FPP_P5_FWD_EST_COST

Name FPP_P5_FWD_EST_COST

Comment This report delivers the forward estimated unit cost based on P5min runs. These high-level estimates (i.e. assuming that all is unused FCAS) will be provided for each constraint for each 5 minute pre-dispatch interval.

7.7.1 Notes

Name	Comment	Value
Visibility		Private

7.7.2 Primary Key Columns

Name

RUN_DATETIME

RUNNO

INTERVAL_DATETIME

CONSTRAINTID

FPP_UNITID

VERSIONNO

7.7.3 Content

Name	Data Type	Mandatory	Comment
RUN_DATETIME	DATE	X	The run date and time of the 5 minute predispatch case that was the trigger for the constraint FCAS processor execution (as the FCAS requirement data is the basis of

			these forward estimates)
RUNNO	NUMBER(5)	X	The 5 minute predispatch case run number that was the trigger for the constraint FCAS processor execution (as the FCAS requirement data is the basis for these forward estimates)
INTERVAL_DATETIME	DATE	X	Date and time of the trading interval (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time)
CONSTRAINTID	VARCHAR2(20)	X	Constraint ID (binding constraint ID from FCAS data used in FPP calculations)
FPP_UNITID	VARCHAR2(20)	X	FPP Unit ID (registered DUID / TNI)
VERSIONNO	NUMBER(5)	X	The version number of the effective default contribution factor for the unit / constraint combination taken from the FPP_FORECAST_DEFAULT_CF table
BIDTYPE	VARCHAR2(10)		Bid type (the bid type saved in relation to constraint ID from FCAS data used in FPP calculations)
RELEVANT_REGIONS	VARCHAR2(200)		Relevant regions (a comma separated list of the relevant regions for the constraint from FCAS data)
EST_UNUSED_FCAS	NUMBER(18,8)		Estimated unused recovery FCAS in AUD (the forward financial estimate of the recovery of unused FCAS, assuming that all is unused FCAS). This value will be either 0 (nil), or a negative value (debit)

			only. For details on the calculation, please see FPP procedure and supporting documentation. Please note that there may be cases where there is not yet a default contribution factor for the constraint (for example if there is a new constraint binding in p5min that has not yet bound in dispatch). In these scenarios there will be no EST_UNUSED_FCAS row sent for the constraint, as it is currently incalculable until a corresponding default contribution factor is calculated from a dispatch run with this constraint binding.
PARTICIPANTID	VARCHAR2(20)		Participant ID

7.8 Table: FPP_P5_FWD_EST_RESIDUALRATE

Name FPP_P5_FWD_EST_RESIDUALRATE

Comment This report delivers the forward estimated residual cost rate based on P5min runs. These high-level estimates (i.e. assuming that all is unused FCAS) will be provided for each constraint for each 5 minute pre-dispatch interval.

7.8.1 Notes

Name	Comment	Value
Visibility		Public

7.8.2 Primary Key Columns

Name

RUN_DATETIME

RUNNO

INTERVAL_DATETIME

CONSTRAINTID

VERSIONNO

7.8.3 Content

Name	Data Type	Mandatory	Comment
RUN_DATETIME	DATE	X	The run date and time of the 5 minute predispatch case that was the trigger for the constraint FCAS processor execution (as the FCAS requirement data is the basis of these forward estimates)

RUNNO	NUMBER(5)	X	The 5 minute predispatch case run number that was the trigger for the constraint FCAS processor execution (as the FCAS requirement data is the basis for these forward estimates)
INTERVAL_DATETIME	DATE	X	Date and time of the trading interval (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time)
CONSTRAINTID	VARCHAR2(20)	X	Constraint ID (binding constraint ID from FCAS data used in FPP calculations)
VERSIONNO	NUMBER(5)	X	The version number of the effective default contribution factor for the unit / constraint combination taken from the FPP_FORECAST_DEFAULT_CF table
BIDTYPE	VARCHAR2(10)		Bid type (the bid type saved in relation to constraint ID from FCAS data used in FPP calculations)
RELEVANT_REGIONS	VARCHAR2(200)		Relevant regions (a comma separated list of the relevant regions for the constraint from FCAS data)
EST_UNUSED_FCAS	NUMBER(18,8)		Estimated unused recovery FCAS in AUD/MWh (the forward financial estimate of the recovery of unused FCAS, assuming that all is unused FCAS). This value will be either 0 (nil), or a negative value (debit) only. For details on the calculation, please see FPP procedure and supporting documentation. Please note that there may be cases

			where there is not yet a residual default contribution factor for the constraint (for example if there is a new constraint binding in p5min that has not yet bound in dispatch). In these scenarios there will be no EST_UNUSED_FCAS row sent for the constraint, as this is currently incalculable until a corresponding residual default contribution factor is calculated from a dispatch run with this constraint binding.

7.9 Table: FPP_PD_FWD_EST_COST

Name FPP_PD_FWD_EST_COST

Comment This report delivers the forward estimated unit cost based on PREDISPATCH runs. These high-level estimates (i.e. assuming that all is unused FCAS) will be provided for each constraint for each 30 minute pre-dispatch interval.

7.9.1 Notes

Name	Comment	Value
Visibility		Private

7.9.2 Primary Key Columns

Name

PREDISPATCHSEQNO

RUN_DATETIME

RUNNO

INTERVAL_DATETIME

CONSTRAINTID

FPP_UNITID

VERSIONNO

7.9.3 Content

Name	Data Type	Mandatory	Comment
PREDISPATCHSEQNO	VARCHAR2(20)	X	Predispatch sequence number for the 30 minute predispatch case that triggers the constraint FCAS processor run

RUN_DATETIME	DATE	X	The run date and time of the 30 minute predispatch case that was the trigger for the constraint FCAS processor execution (as the FCAS requirement data is the basis of these forward estimates)
RUNNO	NUMBER(5)	X	The 30 minute predispatch case run number that was the trigger for the constraint FCAS processor execution (as the FCAS requirement data is the basis for these forward estimates)
INTERVAL_DATETIME	DATE	X	Date and time of the 30 minute predispatch interval (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time)
CONSTRAINTID	VARCHAR2(20)	X	Constraint ID (binding constraint ID from FCAS data used in FPP calculations)
FPP_UNITID	VARCHAR2(20)	X	FPP Unit ID (registered DUID / TNI)
VERSIONNO	NUMBER(5)	X	The version number of the effective default contribution factor for the unit / constraint combination taken from the FPP_FORECAST_DEFAULT_CF table
BIDTYPE	VARCHAR2(10)		Bid type (the bid type saved in relation to constraint ID from FCAS data used in FPP calculations)
RELEVANT_REGIONS	VARCHAR2(200)		Relevant regions (a comma separated list of the relevant regions for the constraint from FCAS data)

EST_UNUSED_FCAS	NUMBER(18,8)		Estimated unused recovery FCAS in AUD (the forward financial estimate of the recovery of unused FCAS, assuming that all is unused FCAS). This value will be either 0 (nil), or a negative value (debit) only. For details on the calculation, please see FPP procedure and supporting documentation. Please note that there may be cases where there is not yet a default contribution factor for the constraint (for example if there is a new constraint binding in predispatch that has not yet bound in dispatch). In these scenarios there will be no EST_UNUSED_FCAS row sent for the constraint, as it is currently incalculable until a corresponding default contribution factor is calculated from a dispatch run with this constraint binding.
PARTICIPANTID	VARCHAR2(20)		Participant ID

7.10 Table: FPP_PD_FWD_EST_RESIDUALRATE

Name FPP_PD_FWD_EST_RESIDUALRATE

Comment This report delivers the forward estimated residual cost rate based on PREDISPATCH runs. These high-level estimates (i.e. assuming that all is unused FCAS) will be provided for each constraint for each 30 minute pre- dispatch interval.

7.10.1 Notes

Name	Comment	Value
Visibility		Public

7.10.2 Primary Key Columns

Name

PREDISPATCHSEQNO

RUN_DATETIME

RUNNO

INTERVAL_DATETIME

CONSTRAINTID

VERSIONNO

7.10.3 Content

Name	Data Type	Mandatory	Comment
PREDISPATCHSEQNO	VARCHAR2(20)	X	Predispatch sequence number for the 30 minute predispatch case that triggers the constraint FCAS processor run

RUN_DATETIME	DATE	X	The run date and time of the 30 minute predispatch case that was the trigger for the constraint FCAS processor execution (as the FCAS requirement data is the basis of these forward estimates)
RUNNO	NUMBER(5)	X	The 30 minute predispatch case run number that was the trigger for the constraint FCAS processor execution (as the FCAS requirement data is the basis for these forward estimates)
INTERVAL_DATETIME	DATE	X	Date and time of the 30 minute predispatch interval (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time)
CONSTRAINTID	VARCHAR2(20)	X	Constraint ID (binding constraint ID from FCAS data used in FPP calculations)
VERSIONNO	NUMBER(5)	X	The version number of the effective default contribution factor for the unit / constraint combination taken from the FPP_FORECAST_DEFAULT_CF table
BIDTYPE	VARCHAR2(10)		Bid type (the bid type saved in relation to constraint ID from FCAS data used in FPP calculations)
RELEVANT_REGIONS	VARCHAR2(200)		Relevant regions (a comma separated list of the relevant regions for the constraint from FCAS data)
EST_UNUSED_FCAS	NUMBER(18,8)		Estimated unused recovery FCAS in AUD/MWh (the forward financial estimate of the recovery of unused

			FCAS, assuming that all is unused FCAS). This value will be either 0 (nil), or a negative value (debit) only. For details on the calculation, please see FPP procedure and supporting documentation. Please note that there may be cases where there is not yet a residual default contribution factor for the constraint (for example if there is a new constraint binding in predispatch that has not yet bound in dispatch). In these scenarios there will be no EST_UNUSED_FCAS row sent for the constraint, as this is currently incalculable until a corresponding residual default contribution factor is calculated from a dispatch run with this constraint binding.

7.11 Table: FPP_REGION_FREQ_MEASURE

Name FPP_REGION_FREQ_MEASURE

Comment This report delivers the curated 4 second frequency deviation and frequency measure data for each region

7.11.1 Notes

Name	Comment	Value
Visibility		Public

7.11.2 Primary Key Columns

Name

INTERVAL_DATETIME

MEASUREMENT_DATETIME

REGIONID

VERSIONNO

7.11.3 Content

Name	Data Type	Mandatory	Comment
INTERVAL_DATETIME	DATE	X	Date and time of the trading interval (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time)
MEASUREMENT_DATETIME	DATE	X	Date and time of the SCADA data (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time)

REGIONID	VARCHAR2(20)	X	Region ID of the frequency deviation / frequency measure
VERSIONNO	NUMBER(5)	X	Version (FPP run number from the FPP database)
FREQ_DEVIATION_HZ	NUMBER(18,8)		Frequency Deviation (4 second frequency deviation in Hz for that region)
HZ_QUALITY_FLAG	NUMBER(5)		Frequency Quality (4 second frequency deviation quality for that region) Supported values are: 0 = Bad Quality 1 = Good Quality 2 = Suspect Quality -1 = Value not used as input in the FPP calculation (generally used to indicate when SCADA data was late arriving after the FPP calculation commenced)
FREQ_MEASURE_HZ	NUMBER(18,8)		Calculated 4 second Frequency Measure for that region from FPP database
FM_ALIGNMENT_FLAG	NUMBER(5)		Alignment Flag (4 second frequency deviation is aligned with 4 second frequency measure for that region) Supported values are: 0 = Misaligned 1 = Aligned

7.12 Table: FPP_RUN

Name FPP_RUN

Comment This report delivers details of the 5-minute FPP calculation engine success failure outcome saved in FPP database

7.12.1 Notes

Name	Comment	Value
Visibility		Public

7.12.2 Primary Key Columns

Name

INTERVAL_DATETIME

VERSIONNO

7.12.3 Content

Name	Data Type	Mandatory	Comment
INTERVAL_DATETIME	DATE	X	Date and time of the trading interval (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time)
VERSIONNO	NUMBER(5)	X	Version (FPP run number from the FPP database)
FPPRUN_DATETIME	DATE		Completion time of the FPP calculation run (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time)
RUN_STATUS	VARCHAR2(20		The status of FPP_RUN at the time

	)		the data model extract report was run. Typical value is Completed
AUTHORISED_DATETIME	DATE		Date and time of the authorisation of this FPP calculation run (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time) - Note may be delayed in cases of ex-post calculation runs

7.13 Table: FPP_UNIT_MW

Name	FPP_UNIT_MW
Comment	This report delivers the curated 4 second measurement MW data for each FPP unit

7.13.1 Notes

Name	Comment	Value
Visibility		Private & Public Next-Day

7.13.2 Primary Key Columns

Name

INTERVAL_DATETIME

MEASUREMENT_DATETIME

FPP_UNITID

VERSIONNO

7.13.3 Content

Name	Data Type	Mandatory	Comment
INTERVAL_DATETIME	DATE	X	Date and time of the trading interval (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time)
MEASUREMENT_DATETIME	DATE	X	Date and time of the SCADA data (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time)

FPP_UNITID	VARCHAR2(20)	X	FPP Unit ID (registered DUID/TNI)
VERSIONNO	NUMBER(5)	X	Version (FPP run number from the FPP database)
MEASURED_MW	NUMBER(18,8)		Measured MW (4 second SCADA measurement in MW)
MW_QUALITY_FLAG	NUMBER(5)		MW Quality (4 second SCADA measurement Quality) Supported values are: 0 = Bad Quality 1 = Good Quality 2 = Suspect Quality -1 = Value not used as input in the FPP calculation (generally used to indicate when SCADA data was late arriving after the FPP calculation commenced)
SCHEDULED_MW	NUMBER(18,5)		Scheduled MW (reference trajectory value from FPP calculation process)
DEVIATION_MW	NUMBER(18,5)		Unit Deviation (output of the FPP calculation process)
PARTICIPANTID	VARCHAR2(20)		Participant ID

7.14 Table: FPP_USAGE

Name	FPP_USAGE
Comment	This report delivers the calculated usage for each constraint for each 5 minute trading interval

7.14.1 Notes

Name	Comment	Value
Visibility		Public

7.14.2 Primary Key Columns

Name

INTERVAL_DATETIME

CONSTRAINTID

VERSIONNO

7.14.3 Content

Name	Data Type	Mandatory	Comment
INTERVAL_DATETIME	DATE	X	Date and time of the trading interval (DD/MM/YYYY HH24:MI:SS) fixed to the UTC+10 time zone (NEM time)
CONSTRAINTID	VARCHAR2(20)	X	Constraint ID (binding constraint ID from FCAS data used in FPP calculations)
VERSIONNO	NUMBER(5)	X	Version (FPP run number from the FPP database)

BIDTYPE	VARCHAR2(10)		Bid type (the bid type saved in relation to constraint ID from FCAS data used in FPP calculations)
REGULATION_MW	NUMBER(18,8)		Enabled regulation MW used in the FPP calculation (from FPP database)
USED_MW	NUMBER(18,8)		Maximum used regulation MW value (quantity of regulation FCAS that was calculated to be used in MW)
USAGE_VALUE	NUMBER(18,8)		Usage (calculation of the proportion of regulation FCAS that was calculated to be used)
USAGE_REASON_FLAG	NUMBER(5)		The reason flag showing the decision matrix for the usage calculation Supported values are: 0 = Usage is calculated based on good input data 1 = Usage is 0 as FM is unreliable 2 = Usage is 0 as the percentage of units with unavailable input or bad data is greater than the threshold percentage

8 Package: P5MIN

Name P5MIN

Comment Results from a published Five-Minute Predispatch Run

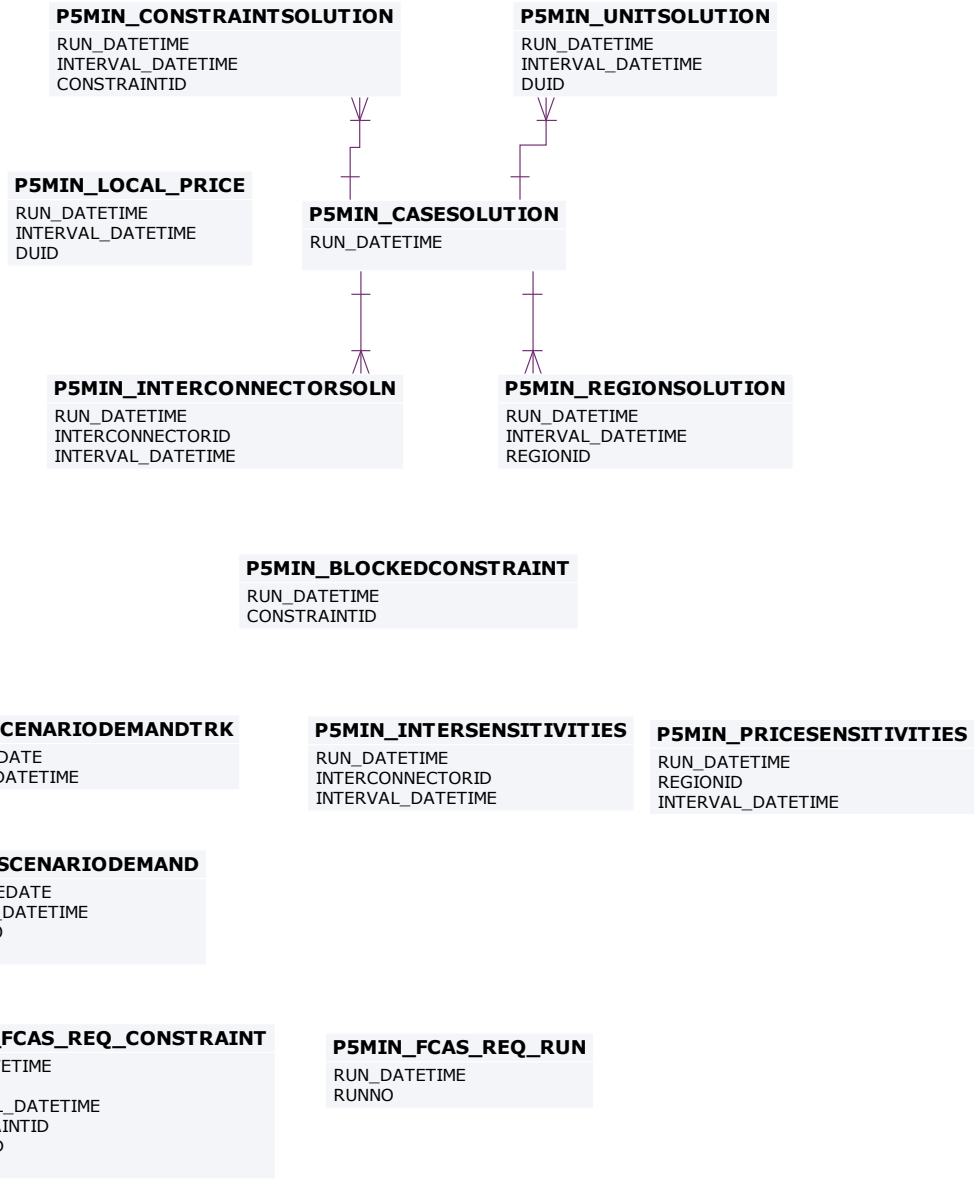
8.1 List of tables

Name	Comment	Visibility
P5MIN_REGIONSOLUTION	The five-minute predispatch (P5Min) is a MMS system providing projected dispatch for 12 Dispatch cycles (one hour). The 5-minute Predispatch cycle runs every 5-minutes to produce a dispatch and pricing schedule to a 5-minute resolution covering the next hour, a total of twelve periods. P5MIN_REGIONSOLUTION shows the results of the regional capacity, maximum surplus reserve and maximum spare capacity evaluations for each period of the study.	Public
P5MIN_UNITSOLUTION	The five-minute predispatch (P5Min) is a MMS system providing projected dispatch for 12 Dispatch cycles (one hour). The 5-minute Predispatch cycle runs every 5-minutes to produce a dispatch and pricing schedule to a 5-minute resolution covering the next hour, a total of twelve periods. P5MIN_UNITSOLUTION shows the Unit results from the capacity evaluations for each period of the study.	Private

8.2 Diagram: Entities: P5MIN

8.2.1 Card of diagram Entities: P5MIN

Name	Entities: P5MIN
Code	ENTITIES__P5MIN
Comment	



8.3 Table: P5MIN_REGIONSOLUTION

Name	P5MIN_REGIONSOLUTION
Comment	The five-minute predispatch (P5Min) is a MMS system providing projected dispatch for 12 Dispatch cycles (one hour). The 5-minute Predispatch cycle runs every 5-minutes to produce a dispatch and pricing schedule to a 5-minute resolution covering the next hour, a total of twelve periods. P5MIN_REGIONSOLUTION shows the results of the regional capacity, maximum surplus reserve and maximum spare capacity evaluations for each period of the study.

8.3.1 Description

P5MIN_REGIONSOLUTION is public data, so is available to all participants.

Source

P5MIN_REGIONSOLUTION updates every 5 minutes.

Volume

Rows per day: 1440

8.3.2 Notes

Name	Comment	Value
Visibility		Public

8.3.3 Primary Key Columns

Name
RUN_DATETIME
REGIONID
INTERVAL_DATETIME

8.3.4 Index Columns

Name

LASTCHANGED

8.3.5 Content

Name	Data Type	Mandatory	Comment
RUN_DATETIME	DATE	X	Unique Timestamp Identifier for this study
INTERVAL_DATETIME	DATE	X	The unique identifier for the interval within this study
REGIONID	VARCHAR2(10)	X	Region Identifier
RRP	NUMBER(15,5)		Region Reference Price (Energy)
ROP	NUMBER(15,5)		Region Override Price (Energy)
EXCESSGENERATION	NUMBER(15,5)		Total Energy Imbalance (MW)
RAISE6SECRRP	NUMBER(15,5)		Region Reference Price (Raise6Sec)
RAISE6SECROP	NUMBER(15,5)		Original regional price (Raise6Sec)
RAISE60SECRRP	NUMBER(15,5)		Region Reference Price (Raise60Sec)
RAISE60SECROP	NUMBER(15,5)		Original regional price (Raise60Sec)
RAISE5MINRRP	NUMBER(15,5)		Region Reference Price (Raise5Min)
RAISE5MINROP	NUMBER(15,5)		Original regional price (Raise5Min)
RAISEREGRRP	NUMBER(15,5)		Region Reference Price (RaiseReg)
RAISEREGROP	NUMBER(15,5)		Original regional price (RaiseReg)

LOWER6SECRRP	NUMBER(15,5)		Region Reference Price (Lower6Sec)
LOWER6SECROP	NUMBER(15,5)		Original regional price (Lower6Sec)
LOWER60SECRRP	NUMBER(15,5)		Region Reference Price (Lower60Sec)
LOWER60SECROP	NUMBER(15,5)		Original regional price (Lower60Sec)
LOWER5MINRRP	NUMBER(15,5)		Region Reference Price (Lower5Min)
LOWER5MINROP	NUMBER(15,5)		Original regional price (Lower5Min)
LOWERREGRRP	NUMBER(15,5)		Region Reference Price (LowerReg)
LOWERREGROP	NUMBER(15,5)		Original regional price (LowerReg)
TOTALDEMAND	NUMBER(15,5)		Regional Demand - NB NOT net of Interconnector flows or Loads
AVAILABLEGENERATION	NUMBER(15,5)		Regional Available generation
AVAILABLELOAD	NUMBER(15,5)		Regional Available Load
DEMANDFORECAST	NUMBER(15,5)		Predicted change in regional demand for this interval
DISPATCHABLEGENERATION	NUMBER(15,5)		Regional Generation Dispatched
DISPATCHABLELOAD	NUMBER(15,5)		Regional Load Dispatched
NETINTERCHANGE	NUMBER(15,5)		Net interconnector Flows
LOWER5MINDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Lower 5 min MW dispatch
LOWER5MINIMPORT	NUMBER(15,5)		Not used since Dec 2003. Lower 5 min MW imported

LOWER5MINLOCALDISPATCH	NUMBER(15,5)		Lower 5 min local dispatch
LOWER5MINLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 5 min local requirement
LOWER5MINREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 5 min total requirement
LOWER60SECDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Lower 60 sec MW dispatch
LOWER60SECIMPORT	NUMBER(15,5)		Not used since Dec 2003. Lower 60 sec MW imported
LOWER60SECLOCALDISPATCH	NUMBER(15,5)		Lower 60 sec local dispatch
LOWER60SECLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 60 sec local requirement
LOWER60SECREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 60 sec total requirement
LOWER6SECDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Lower 6 sec MW dispatch
LOWER6SECIMPORT	NUMBER(15,5)		Not used since Dec 2003. Lower 6 sec MW imported
LOWER6SECLOCALDISPATCH	NUMBER(15,5)		Lower 6 sec local dispatch
LOWER6SECLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 6 sec local requirement
LOWER6SECREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 6 sec total requirement
RAISE5MINDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Total Raise 5 min MW dispatch

RAISE5MINIMPORT	NUMBER(15,5)		Not used since Dec 2003. Raise 5 min MW imported
RAISE5MINLOCALDISPATCH	NUMBER(15,5)		Raise 5 min local dispatch
RAISE5MINLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 5 min local requirement
RAISE5MINREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 5 min total requirement
RAISE60SECDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Raise 60 sec MW dispatch
RAISE60SECIMPORT	NUMBER(15,5)		Not used since Dec 2003. Raise 60 sec MW imported
RAISE60SECLOCALDISPATCH	NUMBER(15,5)		Raise 50 sec local dispatch
RAISE60SECLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 60 sec local requirement
RAISE60SECREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 60 sec total requirement
RAISE6SECDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Raise 6 sec MW dispatch
RAISE6SECIMPORT	NUMBER(15,5)		Not used since Dec 2003. Raise 6 sec MW imported
RAISE6SECLOCALDISPATCH	NUMBER(15,5)		Raise 6 sec local dispatch
RAISE6SECLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 6 sec local requirement
RAISE6SECREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 6 sec total requirement

AGGREGATEDISPATCHERROR	NUMBER(15,5)		Aggregate dispatch error applied
INITIALSUPPLY	NUMBER(15,5)		Sum of initial generation and import for region
CLEAREDSUPPLY	NUMBER(15,5)		Sum of cleared generation and import for region
LOWERREGIMPORT	NUMBER(15,5)		Not used since Dec 2003. Lower Regulation MW imported
LOWERREGDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Total Lower Regulation dispatch
LOWERREGLOCALDISPATCH	NUMBER(15,5)		Lower Regulation local dispatch
LOWERREGLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Lower Regulation local requirement
LOWERREGREQ	NUMBER(15,5)		Not used since Dec 2003. Lower Regulation total requirement
RAISEREGIMPORT	NUMBER(15,5)		Not used since Dec 2003. Raise Regulation MW imported
RAISEREGDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Total Raise Regulation dispatch
RAISEREGLOCALDISPATCH	NUMBER(15,5)		Raise Regulation local dispatch
RAISEREGLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Raise Regulation local requirement
RAISEREGREQ	NUMBER(15,5)		Not used since Dec 2003. Raise Regulation total requirement
RAISE5MINLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 5 min local requirement

RAISEREGLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise Reg local requirement
RAISE60SECLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 60 sec local requirement
RAISE6SECLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 6 sec local requirement
LOWER5MINLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 5 min local requirement
LOWERREGLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower Reg local requirement
LOWER60SECLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 60 sec local requirement
LOWER6SECLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 6 sec local requirement
RAISE5MINVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 5 min requirement
RAISEREGVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise Reg requirement
RAISE60SECVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 60 seconds requirement
RAISE6SECVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 6 seconds requirement

LOWER5MINVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 5 min requirement
LOWERREGVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower Reg requirement
LOWER60SECVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 60 seconds requirement
LOWER6SECVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 6 seconds requirement
LASTCHANGED	DATE		Last date and time record changed
TOTALINTERMITTENTGENERATION	NUMBER(15,5)		Allowance made for non-scheduled generation in the demand forecast (MW).
DEMAND_AND_NONSCHEDGEN	NUMBER(15,5)		Sum of Cleared Scheduled generation, imported generation (at the region boundary) and allowances made for non-scheduled generation (MW).
UIGF	NUMBER(15,5)		Regional aggregated Unconstrained Intermittent Generation Forecast of Semi-scheduled generation (MW).
SEMISCHEDULE_CLEAREDMW	NUMBER(15,5)		Regional aggregated Semi-Schedule generator Cleared MW
SEMISCHEDULE_COMPLIANCEMW	NUMBER(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where Semi-Dispatch cap is enforced
INTERVENTION	Number(2,0)		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
SS_SOLAR_UIGF	Number(15,5)		Regional aggregated Unconstrained Intermittent Generation Forecast of Semi-scheduled generation (MW) where the primary fuel source is solar
SS_WIND_UIGF	Number (15,5)		Regional aggregated Unconstrained Intermittent Generation Forecast of Semi-scheduled generation (MW) where the primary fuel source is wind
SS_SOLAR_CLEAREDMW	Number(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where the primary fuel source is solar
SS_WIND_CLEAREDMW	Number(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where the primary fuel source is wind
SS_SOLAR_COMPLIANCEMW	Number(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where Semi-Dispatch cap is enforced and the primary fuel source is solar
SS_WIND_COMPLIANCEMW	Number(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where Semi-Dispatch cap is enforced and the primary fuel source is wind
WDR_INITIALMW	NUMBER(15,5)		Regional aggregated MW value at start of interval for Wholesale

			Demand Response (WDR) units
WDR_AVAILABLE	NUMBER(15,5)		Regional aggregated available MW for Wholesale Demand Response (WDR) units
WDR_DISPATCHED	NUMBER(15,5)		Regional aggregated dispatched MW for Wholesale Demand Response (WDR) units
SS_SOLAR_AVAILABILITY	NUMBER(15,5)		For Semi-Scheduled units. Aggregate Energy Availability from Solar units in that region
SS_WIND_AVAILABILITY	NUMBER(15,5)		For Semi-Scheduled units. Aggregate Energy Availability from Wind units in that region
RAISE1SECRRP	NUMBER(15,5)		Regional Raise 1Sec Price - R1Price attribute after capping/flooring
RAISE1SECROP	NUMBER(15,5)		Raise1Sec Regional Original Price - uncapped/unfloored and unscaled
LOWER1SECRRP	NUMBER(15,5)		Regional Lower 1Sec Price - RegionSolution element L1Price attribute
LOWER1SECROP	NUMBER(15,5)		Lower1Sec Regional Original Price - uncapped/unfloored and unscaled
RAISE1SECLOCALDISPATCH	NUMBER(15,5)		Total Raise1Sec Dispatched in Region - RegionSolution element R1Dispatch attribute
LOWER1SECLOCALDISPATCH	NUMBER(15,5)		Total Lower1Sec Dispatched in Region - RegionSolution element L1Dispatch attribute
BDU_ENERGY_STORAGE	NUMBER(15,5)		Regional aggregated energy storage where the DUID type is

			BDU (MWh)
BDU_MIN_AVAIL	NUMBER(15,5)		Total available load side BDU summated for region (MW)
BDU_MAX_AVAIL	NUMBER(15,5)		Total available generation side BDU summated for region (MW)
BDU_CLEAREDMW_GEN	NUMBER(15,5)		Regional aggregated cleared MW where the DUID type is BDU. Net of export (Generation)
BDU_CLEAREDMW_LOAD	NUMBER(15,5)		Regional aggregated cleared MW where the DUID type is BDU. Net of import (Load)
BDU_INITIAL_ENERGY_STORAGE	NUMBER(15,5)		Energy Storage for BDU at the start of the interval(MWh) - Region Aggregated
DECGEN_INITIAL_ENERGY_STORAGE	NUMBER(15,5)		Energy storage for Daily Energy Constrained Scheduled Generating Units at the start of the interval(MWh) - Region Aggregated

8.4 Table: P5MIN_UNITSOLUTION

Name	P5MIN_UNITSOLUTION
Comment	The five-minute predispatch (P5Min) is a MMS system providing projected dispatch for 12 Dispatch cycles (one hour). The 5-minute Predispatch cycle runs every 5-minutes to produce a dispatch and pricing schedule to a 5-minute resolution covering the next hour, a total of twelve periods. P5MIN_UNITSOLUTION shows the Unit results from the capacity evaluations for each period of the study.

8.4.1 Description

P5MIN_UNITSOLUTION data is confidential, so shows own details for participant.

Source

P5MIN_UNITSOLUTION updates every 5 minutes for all units, even zero targets.

Volume

Rows per day: 57600

Based on 200 units per Interval

Note

A bitwise flag exists for each ancillary service type such that a unit trapped or stranded in one or more service type can be immediately identified. The SPD Formulation document details the logic determining whether a unit is "trapped" or "stranded". The flag is defined as follows:

Flagged Condition	Bit	Description	Field value
FCAS profile active	0	The bid profile for this service has been activated such that the unit is available to be cleared to provide this ancillary service type.	1 or 3
Trapped	1	The unit is enabled to provide this ancillary service type, however the profile for this service type is causing the unit to be trapped in the energy market.	3
Stranded	2	The unit is bid available to provide this ancillary service type, however, the unit is operating in the energy market outside of the profile for this service type and is stranded from providing this service.	4

8.4.2 Notes

Name	Comment	Value
Visibility		Private

8.4.3 Primary Key Columns

Name

RUN_DATETIME

DUID

INTERVAL_DATETIME

8.4.4 Index Columns

Name

LASTCHANGED

8.4.5 Content

Name	Data Type	Mandatory	Comment
RUN_DATETIME	DATE	X	Unique Timestamp Identifier for this study
INTERVAL_DATETIME	DATE	X	The unique identifier for the interval within this study
DUID	VARCHAR2(10)	X	Dispatchable unit identifier
CONNECTIONPOINTID	VARCHAR2(12)		Connection point identifier for DUID
TRADETYPE	NUMBER(2,0)		Generator or Load
AGCSTATUS	NUMBER(2,0)		AGC Status from EMS: 1 = on, 0 = off
INITIALMW	NUMBER(15,5)		Initial MW at start of period. For periods subsequent to the first period of a P5MIN run, this value represents the cleared target for the previous period of that P5MIN run. Negative values when Bi-

			directional Unit start from importing power, otherwise positive.
TOTALCLEARED	NUMBER(15,5)		Target MW for end of period. Negative values when Bi-directional Unit is importing power, otherwise positive.
RAMPDOWNRATE	NUMBER(15,5)		Ramp down rate (lessor of bid or telemetered rate).
RAMPUPRATE	NUMBER(15,5)		Ramp up rate (lessor of bid or telemetered rate).
LOWER5MIN	NUMBER(15,5)		Lower 5 min reserve target
LOWER60SEC	NUMBER(15,5)		Lower 60 sec reserve target
LOWER6SEC	NUMBER(15,5)		Lower 6 sec reserve target
RAISE5MIN	NUMBER(15,5)		Raise 5 min reserve target
RAISE60SEC	NUMBER(15,5)		Raise 60 sec reserve target
RAISE6SEC	NUMBER(15,5)		Raise 6 sec reserve target
LOWERREG	NUMBER(15,5)		Lower Regulation reserve target
RAISEREG	NUMBER(15,5)		Raise Regulation reserve target
AVAILABILITY	NUMBER(15,5)		For Scheduled units, this is the MAXAVAIL bid availability For Semi-scheduled units, this is the lower of MAXAVAIL bid availability and UIGF
RAISE6SECFLAGS	NUMBER(3,0)		Raise 6sec status flag
RAISE60SECFLAGS	NUMBER(3,0)		Raise 60sec status flag
RAISE5MINFLAGS	NUMBER(3,0)		Raise 5min status flag

RAISEREGFLAGS	NUMBER(3,0)		Raise Reg status flag
LOWER6SECFLAGS	NUMBER(3,0)		Lower 6sec status flag
LOWER60SECFLAGS	NUMBER(3,0)		Lower 60sec status flag
LOWER5MINFLAGS	NUMBER(3,0)		Lower 5min status flag
LOWERREGFLAGS	NUMBER(3,0)		Lower Reg status flag
LASTCHANGED	DATE		Last date and time record changed
SEMIDISPATCHCAP	NUMBER(3,0)		Boolean representation flagging if the Target is Capped
INTERVENTION	Number(2,0)		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
DISPATCHMODETIME	NUMBER(4,0)		Minutes for which the unit has been in the current DISPATCHMODE. From NEMDE TRADERSOLUTION element FSTARGETMODETIME attribute.
CONFORMANCE_MODE	NUMBER(6,0)		Mode specific to units within an aggregate. 0 - no monitoring, 1 - aggregate monitoring, 2 - individual monitoring due to constraint
UIGF	NUMBER(15,5)		For Semi-Scheduled units. Unconstrained Intermittent Generation Forecast value provided to NEMDE
RAISE1SEC	NUMBER(15,5)		Dispatched Raise1Sec -

			TraderSolution element R1Target attribute
RAISE1SECFLAGS	NUMBER(3,0)		TraderSolution element R1Flags attribute
LOWER1SEC	NUMBER(15,5)		Dispatched Lower1Sec - TraderSolution element L1Target attribute
LOWER1SECFLAGS	NUMBER(3,0)		TraderSolution element L1Flags attribute
INITIAL_ENERGY_STORAGE	NUMBER(15,5)		The energy storage at the start of this dispatch interval(MWh)
ENERGY_STORAGE	NUMBER(15,5)		The projected energy storage based on cleared energy and regulation FCAS dispatch(MWh)
ENERGY_STORAGE_MIN	NUMBER(15,5)		BDU only - Minimum Energy Storage constraint limit (MWh)
ENERGY_STORAGE_MAX	NUMBER(15,5)		BDU only - Maximum Energy Storage constraint limit (MWh)
MIN_AVAILABILITY	NUMBER(15,5)		BDU only. Load side availability (BidOfferPeriod.MAXAVAIL where DIRECTION = LOAD).

9 Package: PD7DAY

Name PD7DAY

Comment Results from a published Predispatch 7 Day Run

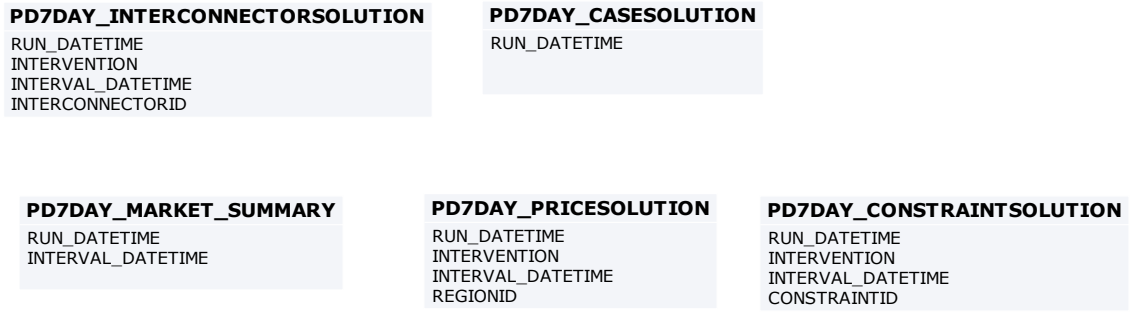
9.1 List of tables

Name	Comment	Visibility
PD7DAY_PRICESOLUTION	PD7DAY price solution	Public

9.2 Diagram: Entities: PD7DAY

9.2.1 Card of diagram Entities: PD7DAY

Name	Entities: PD7DAY
Code	ENTITIES__PD7DAY
Comment	



9.3 Table: PD7DAY_PRICESOLUTION

Name PD7DAY_PRICESOLUTION

Comment PD7DAY price solution

9.3.1 Notes

Name	Comment	Value
Visibility		Public

9.3.2 Primary Key Columns

Name

RUN_DATETIME

INTERVAL_DATETIME

REGIONID

INTERVENTION

9.3.3 Content

Name	Data Type	Mandatory	Comment
RUN_DATETIME	DATE	X	Unique Timestamp Identifier for this study
INTERVENTION	NUMBER(2,0)	X	Flag to indicate if this Predispatch case includes an intervention pricing run: 0 = case does not include an intervention pricing run, 1 = case does include an intervention pricing run.

INTERVAL_DATETIME	DATE	X	The unique identifier for the interval within this study
REGIONID	VARCHAR2(20)	X	Region Identifier
RRP	NUMBER(15,5)		Region Reference Price (Energy)
LOWER1SECRRP	NUMBER(15,5)		Regional Lower 1Sec Price - RegionSolution element L1Price attribute
LOWER6SECRRP	NUMBER(15,5)		Region Reference Price (Lower6Sec)
LOWER60SECRRP	NUMBER(15,5)		Region Reference Price (Lower60Sec)
LOWER5MINRRP	NUMBER(15,5)		Region Reference Price (Lower5Min)
LOWERREGRRP	NUMBER(15,5)		Region Reference Price (LowerReg)
RAISE1SECRRP	NUMBER(15,5)		Regional Raise 1Sec Price - R1Price attribute after capping/flooring
RAISE6SECRRP	NUMBER(15,5)		Region Reference Price (Raise6Sec)
RAISE60SECRRP	NUMBER(15,5)		Region Reference Price (Raise60Sec)
RAISE5MINRRP	NUMBER(15,5)		Region Reference Price (Raise5Min)
RAISEREGRRP	NUMBER(15,5)		Region Reference Price (RaiseReg)
LASTCHANGED	DATE		Last date and time record changed
BDU_INITIAL_ENERGY_STORAGE	NUMBER(15,5)		Energy Storage for BDU at the start of the interval(MWh) - Region Aggregated
DECGEN_INITIAL_ENERGY_STORAGE	NUMBER(15,5)		Energy storage for Daily Energy Constrained Scheduled Generating

			Units at the start of the interval(MWh) - Region Aggregated

10 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

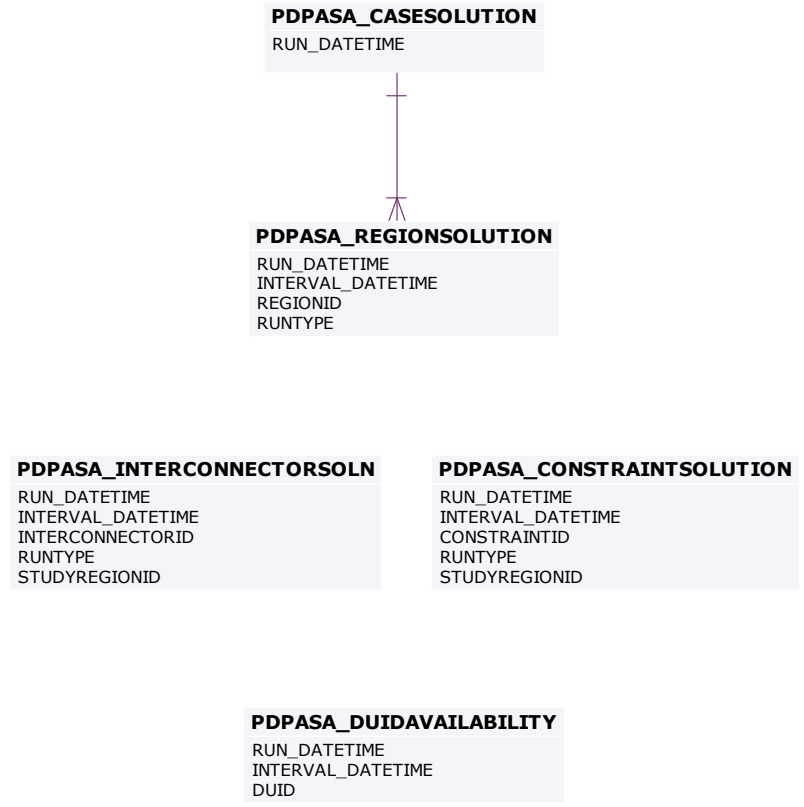
10.1 List of tables

Name	Comment	Visibility
PDPASA_DUIDAVAILABILITY	This report delivers available capacity, PASA availability and given recall period for all scheduled resources. Note that for an MNSP, DUID = LINKID in the MNSP_INTERCONNECTOR table	Public
PDPASA_REGIONSOLUTION	The PDPASA region solution data	Public

10.2 Diagram: Entities: PD PASA

10.2.1 Card of diagram Entities: PD PASA

Name	Entities: PD PASA
Code	ENTITIES__PD_PASA
Comment	



10.3 Table: PDPASA_DUIDAVAILABILITY

Name	PDPASA_DUIDAVAILABILITY
Comment	This report delivers available capacity, PASA availability and given recall period for all scheduled resources. Note that for an MNSP, DUID = LINKID in the MNSP_INTERCONNECTOR table

10.3.1 Notes

Name	Comment	Value
Visibility		Public

10.3.2 Primary Key Columns

Name

RUN_DATETIME

INTERVAL_DATETIME

DUID

10.3.3 Content

Name	Data Type	Mandatory	Comment
RUN_DATETIME	DATE	X	First half hour ended interval of the run
INTERVAL_DATETIME	DATE	X	Half hour ended interval
DUID	VARCHAR2(20)	X	NEM Dispatchable Unit Identifier
GENERATION_MAX_AVAILABILITY	NUMBER(12,6)		Available Capacity for a scheduled generating unit, semi-scheduled generating unit, BDU (Gen side),

			WDR or MNSP.
GENERATION_PASA_AVAILABILITY	NUMBER(12,0)		PASA Availability for a scheduled generating unit, BDU (Gen side), WDR or MNSP. Null for a semi-scheduled generating unit.
GENERATION_RECALL_PERIOD	NUMBER(8,3)		Recall Period associated with the PASA Availability for a scheduled generating unit, BDU (Gen side), WDR or MNSP. Null for a semi-scheduled generating unit.
LOAD_MAX_AVAILABILITY	NUMBER(12,6)		Available Capacity for a scheduled load or BDU(Load side).
LOAD_PASA_AVAILABILITY	NUMBER(12,0)		PASA Availability for a scheduled load or BDU(Load side).
LOAD_RECALL_PERIOD	NUMBER(8,3)		Recall Period associated with the PASA Availability for a scheduled load or BDU(Load side).
LASTCHANGED	DATE		The Last changed Date time of the record

10.4 Table: PDPASA_REGIONSOLUTION

Name	PDPASA_REGIONSOLUTION
Comment	The PDPASA region solution data

10.4.1 Description

PDPASA_REGIONSOLUTION is public so is available to all participants.

Source

PDPASA_REGIONSOLUTION is updated each PDPASA run (i.e. half-hourly).

Volume

Rows per day: 32000

Notes

LRC Determination

SURPLUSRESERVE is the surplus reserve in a region based on meeting the demand plus the reserve requirement in all regions simultaneously. Note that any surplus above the network restrictions and system reserve requirements is reported in the region it is generated, thus a surplus of zero can mean that a region is importing to meet a requirement or that it has exported all surplus to meet an adjacent region's requirement.

The PASA processes also calculate a regionally optimised surplus called the Maximum LRC Surplus (MAXSURPLUSRESERVE) being a figure on how much generation could be brought to this region subject to meeting requirements in other regions.

LOR Determination

MAXSPARECAPACITY is a regionally optimised figure representing the surplus generation able to be brought to a region subject to meeting the demand in all other regions.

Participants are directed to the first half hour of the Predispatch PASA (PDPASA) reports as NEMMCO's latest reserve determination for a given half hour.

10.4.2 Notes

Name	Comment	Value
Visibility		Public

10.4.3 Primary Key Columns

Name
RUN_DATETIME

RUNTYPE

INTERVAL_DATETIME

REGIONID

10.4.4 Index Columns

Name

LASTCHANGED

10.4.5 Content

Name	Data Type	Mandatory	Comment
RUN_DATETIME	DATE	X	Case identifier by the time the case was run
INTERVAL_DATETIME	DATE	X	End date time of the interval
REGIONID	VARCHAR2(10)	X	Region identifier
DEMAND10	NUMBER(12,2)		10% Probability of Exceedance demand forecast
DEMAND50	NUMBER(12,2)		50% Probability of Exceedance demand forecast
DEMAND90	NUMBER(12,2)		90% Probability of Exceedance demand forecast
RESERVEREQ	NUMBER(12,2)		Region reserve requirement (MW)
CAPACITYREQ	NUMBER(12,2)		Capacity required to meet the demand and reserve levels in the capacity adequacy assessment.

ENERGYREQDEMAND50	NUMBER(12,2)		Energy (GWh) required for this energy block based on the 50% probability of exceedance demand. Listed in the first interval of the energy block.
UNCONSTRAINEDCAPACITY	NUMBER(12,0)		Aggregate generator capability from Non Energy Constrained plant including restrictions due to network constraints from the capacity adequacy (LRC) assessment.
CONSTRAINEDCAPACITY	NUMBER(12,0)		Aggregate generator capability from Energy Constrained plant including restrictions due to network constraints
NETINTERCHANGEUNDERSCARCITY	NUMBER(12,2)		Net interconnector flow from the region for this interval from the capacity adequacy (LRC) assessment.
SURPLUSCAPACITY	NUMBER(12,2)		Surplus capacity (MW) above the demand, scheduled load and net interchange in this region from the capacity adequacy (LRC) assessment.
SURPLUSRESERVE	NUMBER(12,2)		Surplus reserve (MW) above the demand, scheduled load, net interchange and reserve requirement in this region from the capacity adequacy (LRC) assessment.
RESERVECONDITION	NUMBER(1,0)		Low Reserve Condition (LRC) flag for this region in this interval (1 - LRC, 0 - No LRC)
MAXSURPLUSRESERVE	NUMBER(12,2)		Maximum surplus reserve (MW)

			above the demand + reserve requirement able to be sourced to this region while meeting demand + reserve requirements in other regions.
MAXSPARECAPACITY	NUMBER(12,2)		Maximum spare capacity (MW) above the demand able to be sourced to this region while meeting demands in other regions.
LORCONDITION	NUMBER(1,0)		Lack of Reserve Condition (LOR) flag for this region and interval (3 = LOR3, 2 = LOR2, 1 = LOR1, 0 = No LOR)
AGGREGATECAPACITYAVAILABLE	NUMBER(12,2)		Sum of MAXAVAIL quantities offered by all Scheduled units and Availability of all semi-scheduled units limited by MAXAVAIL in a given Region for a given PERIODID
AGGREGATESCHEDULEDLOAD	NUMBER(12,2)		Sum of MAXAVAIL quantities bid by of all Scheduled Loads in a given Region for a given PERIODID.
LASTCHANGED	DATE		Date time the record was created or modified changed
AGGREGATEPASAAVAILABILITY	NUMBER(12,0)		Sum of PASAAVAILABILITY for all scheduled generating units and scheduled bidirectional units (Gen side) with a Recall_Period of null or <= 24 hours plus the sum of Unconstrained Intermittent Generation Forecasts (UIGF) for all semi-scheduled generating units. For the OUTAGE_LRC run, UIGF is the POE90 forecast. For the LOR Run, UIGF is the POE50 forecast.

			Note that the OUTAGE_LRC Run Type is discontinued from 31 July 2025.
RUNTYPE	VARCHAR2(20)	X	Type of run. Values are RELIABILITY_LRC, OUTAGE_LRC and LOR. Note that the PDPASA OUTAGE_LRC Run Type is discontinued from 31 July 2025, with only the LOR Run Type reported.
ENERGYREQDEMAND10	NUMBER(12,2)		Energy (GWh) required for this energy block based on the 10% probability of exceedance demand. Listed in the first interval of the energy block
CALCULATEDLOR1LEVEL	NUMBER(16,6)		Region Reserve Level for LOR1 used. Can be static value or calculated value if an interconnector is a credible contingency
CALCULATEDLOR2LEVEL	NUMBER(16,6)		Region Reserve Level for LOR2 used. Can be static value or calculated value if an interconnector is a credible contingency
MSRNETINTERCHANGEUNDERSCARCITY	NUMBER(12,2)		Net interconnector flow from the region for this interval from the MSR assessment
LORNETINTERCHANGEUNDERSCARCITY	NUMBER(12,2)		Net interconnector flow from the region for this interval from the LOR assessment
TOTALINTERMITTENTGENERATION	NUMBER(15,5)		Allowance made for non-scheduled generation in the demand forecast (MW).

DEMAND_AND_NONSCHEDGEN	NUMBER(15,5)		Sum of Cleared Scheduled generation, imported generation (at the region boundary) and allowances made for non-scheduled generation (MW).
UIGF	NUMBER(12,2)		Regional aggregated Unconstrained Intermittent Generation Forecast of Semi-scheduled generation (MW).
SemiScheduledCapacity	NUMBER(12,2)		Constrained generation forecast for semi-scheduled units for the region. For RELIABILITY_LRC run semi-scheduled generation is constrained only by System Normal constraints. For OUTAGE_LRC run and LOR run semi-scheduled generation is constrained by both System Normal and Outage constraints. All three run types (RELIABILITY_LRC, OUTAGE_LRC, LOR) incorporate MAXAVAIL limits.
LOR_SemiScheduledCapacity	NUMBER(12,2)		Constrained generation forecast for semi-scheduled units for the region for the LOR run. Semi-scheduled generation is constrained by both System Normal and Outage constraints, and incorporate MAXAVAIL limits.
LCR	NUMBER(16,6)		Largest Credible Risk. MW value for highest credible contingency
LCR2	NUMBER(16,6)		Two Largest Creditable Risks. MW value for highest two credible contingencies.
FUM	NUMBER(16,6)		Forecasting Uncertainty Measure.

			MW value of reserve calculated as defined in the Reserve Level Declaration Guidelines
SS_SOLAR_UIGF	Number(12,2)		Unconstrained Intermittent Generation Forecast for solar for the region. For RELIABILITY_LRC and OUTAGE_LRC run this is the POE90 forecast (determined by LRCUIGFOption in CaseSolution). For LOR run this is the POE50 forecast
SS_WIND_UIGF	Number (12,2)		Unconstrained Intermittent Generation Forecast for wind for the region. For RELIABILITY_LRC and OUTAGE_LRC run this is the POE90 forecast (determined by LRCUIGFOption in CaseSolution). For LOR run this is the POE50 forecast
SS_SOLAR_CAPACITY	Number (12,2)		Constrained generation forecast for solar for the region. For RELIABILITY_LRC run solar generation is constrained only by System Normal constraints. For OUTAGE_LRC run and LOR run solar generation is constrained by both System Normal and Outage constraints. All three run types (RELIABILITY_LRC, OUTAGE_LRC, LOR) incorporate MAXAVAIL limits.
SS_WIND_CAPACITY	Number (12,2)		Constrained generation forecast for wind for the region. For RELIABILITY_LRC run wind generation is constrained only by System Normal constraints. For OUTAGE_LRC run and LOR run wind generation is constrained by

			both System Normal and Outage constraints. All three run types (RELIABILITY_LRC, OUTAGE_LRC, LOR) incorporate MAXAVAIL limits.
SS_SOLAR_CLEARED	Number (12,2)		Constrained generation forecast for solar for the region. For RELIABILITY_LRC run solar generation is constrained only by System Normal constraints. For OUTAGE_LRC run and LOR run solar generation is constrained by both System Normal and Outage constraints. All three run types (RELIABILITY_LRC, OUTAGE_LRC, LOR) incorporate MAXAVAIL limits.
SS_WIND_CLEARED	Number (12,2)		Constrained generation forecast for wind for the region. For RELIABILITY_LRC run wind generation is constrained only by System Normal constraints. For OUTAGE_LRC run and LOR run wind generation is constrained by both System Normal and Outage constraints. All three run types (RELIABILITY_LRC, OUTAGE_LRC, LOR) incorporate MAXAVAIL limits.
WDR_AVAILABLE	NUMBER(12,2)		Regional aggregated Wholesale Demand Response (WDR) availability in MW.
WDR_PASAAVAILABLE	NUMBER(12,2)		Regional aggregated Wholesale Demand Response (WDR) PASA availability in MW.
WDR_CAPACITY	NUMBER(12,2)		Regional aggregated Wholesale Demand Response (WDR) capacity in MW.

11 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

PredispatchInterconnectorRes: PredispatchSeqNo, DateTime, InterconnectorID,

PredispatchPrice: PredispatchSeqNo, DateTime, RegionID

PredispatchPriceSensitivities: PredispatchSeqNo, DateTime, RegionID

PredispatchInterSensitivities: PredispatchSeqNo, DateTime, InterconnectorID

PredispatchRegionsum: PredispatchSeqNo, DateTime, RegionID

Option 2b

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 = 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.

11.1 List of tables

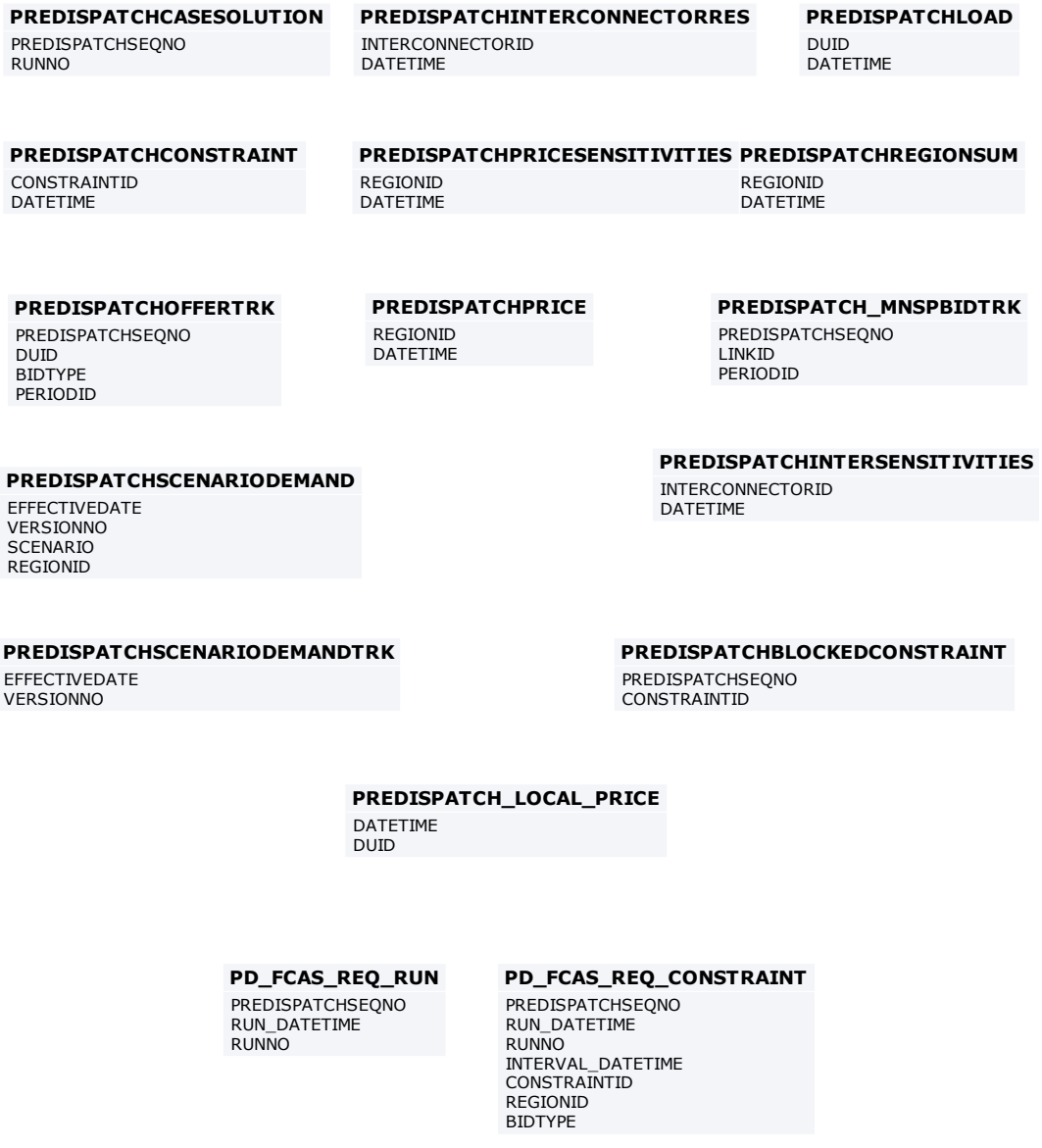
Name	Comment	Visibility
PREDISPATCHLOAD	PREDISPATCHLOAD shows pre-dispatch targets for each dispatchable unit,	Private & Public Next-

	including additional fields to handle the Ancillary Services functionality. No record is written where a unit is not dispatched. PREDISPATCHLOAD shows all the results for each period.	Day
PREDISPATCHREGIONSUM	PREDISPATCHREGIONSUM sets out the overall regional Pre-Dispatch results for base case details (excluding price).	Public

11.2 Diagram: Entities: Predispatch

11.2.1 Card of diagram Entities: Predispatch

Name	Entities: Predispatch
Code	ENTITIES__PREDISPATCH
Comment	



11.3 Table: PREDISPATCHLOAD

Name	PREDISPATCHLOAD
Comment	PREDISPATCHLOAD shows pre-dispatch targets for each dispatchable unit, including additional fields to handle the Ancillary Services functionality. No record is written where a unit is not dispatched. PREDISPATCHLOAD shows all the results for each period.

11.3.1 Description

Source

Own (confidential) data updates every thirty minutes, with whole market data for the day before available as part of next day market data.

Note

** A flag exists for each ancillary service type such that a unit trapped or stranded in one or more service type can be immediately identified. The flag is defined using the low 3 bits as follows:

Flag Name	Bit	Description
Enabled	0	The unit is enabled to provide this ancillary service type.
Trapped	1	The unit is enabled to provide this ancillary service type, however the profile for this service type is causing the unit to be trapped in the energy market.
Stranded	2	The unit is bid available to provide this ancillary service type, however, the unit is operating in the energy market outside of the profile for this service type and is stranded from providing this service.

Interpretation of the bit-flags as a number gives the following possibilities (i.e. other combinations are not possible):

Numeric Value	Bit (2,1,0)	Meaning
0	000	Not stranded, not trapped, not enabled.
1	001	Not stranded, not trapped, is enabled.
3	011	Not stranded, is trapped, is enabled.
4	100	Is stranded, not trapped, not enabled.

For example, testing for availability can be done by checking for odd (=available) or even (=unavailable) number (e.g. `mod(flag,2)` results in 0 for unavailable and 1 for available).

*** "Actual FCAS availability" is determined in a post-processing step based on the energy target (TotalCleared) and bid FCAS trapezium for that interval. However, if the unit is outside the bid FCAS trapezium at the start of the interval (InitialMW), the "Actual FCAS availability" is set to zero. For regulation services, the trapezium is the most restrictive of the bid/SCADA trapezium values.

11.3.2 Notes

Name	Comment	Value
Visibility		Private & Public Next-Day

11.3.3 Primary Key Columns

Name

DATETIME

DUID

11.3.4 Index Columns

Name

DUID

LASTCHANGED

11.3.5 Index Columns

Name

PREDISPATCHSEQNO

11.3.6 Index Columns

Name

LASTCHANGED

11.3.7 Content

Name	Data Type	Mandatory	Comment
PREDISPATCHSEQNO	VARCHAR2(20)		Unique identifier of predispatch run in the form YYYYMMDDPP with 01 at 04:30

RUNNO	NUMBER(3,0)		SPD Predispatch run no, typically 1. It increments if the case is re-run.
DUID	VARCHAR2(10)	X	Dispatchable unit identifier for fast start
TRADETYPE	NUMBER(2,0)		Not used
PERIODID	VARCHAR2(20)		PERIODID is just a period count, starting from 1 for each predispatch run. Use DATETIME to determine half hour period.
INTERVENTION	NUMBER(2,0)		Flag to indicate if this result set was sourced from the pricing run (INTERVENTION=0) or the physical run (INTERVENTION=1). In the event that there is not intervention in the market, both pricing and physical runs correspond to INTERVENTION=0
CONNECTIONPOINTID	VARCHAR2(12)		Connection point identifier
AGCSTATUS	NUMBER(2,0)		AGC Status from EMS
DISPATCHMODE	NUMBER(2,0)		Dispatch mode of unit for fast start (1-4)
INITIALMW	NUMBER(15,5)		Initial MW at start of first period. For periods subsequent to the first period of a Pre-Dispatch run, this value represents the cleared target for the previous period of that Pre-Dispatch run. Negative values when Bi-directional Unit start from importing power, otherwise positive.
TOTALCLEARED	NUMBER(15,5)		Target MW for end of period. Negative values when Bi-

			directional Unit is importing power, otherwise positive.
LOWER5MIN	NUMBER(15,5)		Lower 5 min MW target in period
LOWER60SEC	NUMBER(15,5)		Lower 60 sec MW target in period
LOWER6SEC	NUMBER(15,5)		Lower 6 sec MW target in period
RAISE5MIN	NUMBER(15,5)		Raise 5 min MW target in period
RAISE60SEC	NUMBER(15,5)		Raise 60 sec MW target in period
RAISE6SEC	NUMBER(15,5)		Raise 6 sec MW target in period
RAMPDOWNRATE	NUMBER(15,5)		Ramp down rate in period in MW/minute
RAMPUPRATE	NUMBER(15,5)		Ramp up rate in period in MW/minute
DOWNEPF	NUMBER(15,5)		Not used in Pre-Dispatch
UPEPF	NUMBER(15,5)		Not used in Pre-Dispatch
MARGINAL5MINVALUE	NUMBER(15,5)		Marginal $ value for 5 min from LP Solver
MARGINAL60SECVALUE	NUMBER(15,5)		Marginal $ value for 60 seconds from LP Solver
MARGINAL6SECVALUE	NUMBER(15,5)		Marginal $ value for 6 seconds from LP Solver
MARGINALVALUE	NUMBER(15,5)		Marginal $ value for energy from LP Solver
VIOLATION5MINDEGREE	NUMBER(15,5)		Violation MW 5 min
VIOLATION60SECDEGREE	NUMBER(15,5)		Violation MW 60 seconds
VIOLATION6SECDEGREE	NUMBER(15,5)		Violation MW 6 seconds
VIOLATIONDEGREE	NUMBER(15,5)		Violation MW energy

LASTCHANGED	DATE		Last date and time record changed
DATETIME	DATE	X	Period date and time
LOWERREG	NUMBER(15,5)		Lower Regulation reserve target
RAISEREG	NUMBER(15,5)		Raise Regulation reserve target
AVAILABILITY	NUMBER(15,5)		For Scheduled units, this is the MAXAVAIL bid availability For Semi-scheduled units, this is the lower of MAXAVAIL bid availability and UIGF
RAISE6SECFLAGS	NUMBER(3,0)		Raise 6sec status flag
RAISE60SECFLAGS	NUMBER(3,0)		Raise 60sec status flag
RAISE5MINFLAGS	NUMBER(3,0)		Raise 5min status flag
RAISEREGFLAGS	NUMBER(3,0)		Raise reg status flag
LOWER6SECFLAGS	NUMBER(3,0)		Lower 6sec status flag
LOWER60SECFLAGS	NUMBER(3,0)		Lower 60sec status flag
LOWER5MINFLAGS	NUMBER(3,0)		Lower 5min status flag
LOWERREGFLAGS	NUMBER(3,0)		Lower Reg status flag
RAISE6SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise 6sec availability
RAISE60SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise 60sec availability
RAISE5MINACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise 5min availability
RAISEREGACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise reg availability
LOWER6SECACTUALAVAIL	NUMBER(16,6)		trapezium adjusted lower 6sec

ABILITY			availability
LOWER60SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower 60sec availability
LOWER5MINACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower 5min availability
LOWERREGACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower reg availability
SEMIDISPATCHCAP	NUMBER(3,0)		Boolean representation flagging if the Target is Capped
CONFORMANCE_MODE	NUMBER(6,0)		Mode specific to units within an aggregate. 0 - no monitoring, 1 - aggregate monitoring, 2 - individual monitoring due to constraint
UIGF	NUMBER(15,5)		For Semi-Scheduled units. Unconstrained Intermittent Generation Forecast value provided to NEMDE
RAISE1SEC	NUMBER(15,5)		Dispatched Raise1Sec - TraderSolution element R1Target attribute
RAISE1SECFLAGS	NUMBER(3,0)		TraderSolution element R1Flags attribute
LOWER1SEC	NUMBER(15,5)		Dispatched Lower1Sec - TraderSolution element L1Target attribute
LOWER1SECFLAGS	NUMBER(3,0)		TraderSolution element L1Flags attribute
RAISE1SECACTUALAVAILABILITY	NUMBER(16,6)		Trapezium adjusted Raise 1Sec Availability

LOWER1SECACTUALAVAILABILITY	NUMBER(16,6)		Trapezium adjusted Lower 1Sec Availability
INITIAL_ENERGY_STORAGE	NUMBER(15,5)		The energy storage at the start of this dispatch interval(MWh)
ENERGY_STORAGE	NUMBER(15,5)		The projected energy storage based on cleared energy and regulation FCAS dispatch(MWh)
ENERGY_STORAGE_MIN	NUMBER(15,5)		BDU only - Minimum Energy Storage constraint limit (MWh)
ENERGY_STORAGE_MAX	NUMBER(15,5)		BDU only - Maximum Energy Storage constraint limit (MWh)
MIN_AVAILABILITY	NUMBER(15,5)		BDU only. Load side availability (BidOfferPeriod.MAXAVAIL where DIRECTION = LOAD)

11.4 Table: PREDISPATCHREGIONSUM

Name	PREDISPATCHREGIONSUM
Comment	PREDISPATCHREGIONSUM sets out the overall regional Pre-Dispatch results for base case details (excluding price).

11.4.1 Description

PREDISPATCHREGIONSUM includes the forecast demand (total demand) and Frequency Control Ancillary Services (FCAS) requirements (specifically, for the Raise Regulation and Lower Regulation Ancillary Services plus improvements to demand calculations). PREDISPATCHREGIONSUM updates each half-hour with the latest Pre-Dispatch details for the remaining period.

Regional demand can be calculated as total demand plus dispatchable load (i.e. Regional demand = Total Demand + Dispatchable Load)

Source

PREDISPATCHREGIONSUM updates every thirty minutes.

Note

*** "Actual FCAS availability" is determined in a post-processing step based on the energy target (TotalCleared) and bid FCAS trapezium for that interval. However, if the unit is outside the bid FCAS trapezium at the start of the interval (InitialMW), the "Actual FCAS availability" is set to zero. For regulation services, the trapezium is the most restrictive of the bid/SCADA trapezium values.

From 16 February 2006, the old reserve values are no longer populated (i.e. are null), being LORSurplus and LRCSurplus. For more details on the changes to Reporting of Reserve Condition Data, refer to AEMO Communication 2042. For the best available indicator of reserve condition in each of the regions of the NEM for each trading interval, refer to the latest run of the Pre-Dispatch PASA (see table PDPASA_REGIONSOLUTION).

11.4.2 Notes

Name	Comment	Value
Visibility		Public

11.4.3 Primary Key Columns

Name
DATETIME
REGIONID

11.4.4 Index Columns

Name

PREDISPATCHSEQNO

11.4.5 Index Columns

Name

LASTCHANGED

11.4.6 Content

Name	Data Type	Mandatory	Comment
PREDISPATCHSEQNO	VARCHAR2(20)		Unique identifier of predispatch run in the form YYYYMMDDPP with 01 at 04:30
RUNNO	NUMBER(3,0)		LP Solver Pre-Dispatch run no, typically 1. It increments if the case is re-run.
REGIONID	VARCHAR2(10)	X	Unique region identifier
PERIODID	VARCHAR2(20)		PERIODID is just a period count, starting from 1 for each Pre-Dispatch run. Use DATETIME to determine half hour period.
INTERVENTION	NUMBER(2,0)		Flag to indicate if this result set was sourced from the pricing run (INTERVENTION=0) or the physical run (INTERVENTION=1). In the event that there is not intervention in the market, both pricing and

			physical runs correspond to INTERVENTION=0
TOTALDEMAND	NUMBER(15,5)		Total demand in MW for period (less normally on loads)
AVAILABLEGENERATION	NUMBER(15,5)		Aggregate generation bid available in region
AVAILABLELOAD	NUMBER(15,5)		Aggregate load bid available in region
DEMANDFORECAST	NUMBER(15,5)		Delta MW value only
DISPATCHABLEGENERATION	NUMBER(15,5)		Generation dispatched in period
DISPATCHABLELOAD	NUMBER(15,5)		Load dispatched in period
NETINTERCHANGE	NUMBER(15,5)		Net interconnector flow from the regional reference node
EXCESSGENERATION	NUMBER(15,5)		Excess generation in period / Deficit generation if VOLL
LOWER5MINDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Lower 5 min MW dispatch
LOWER5MINIMPORT	NUMBER(15,5)		Not used since Dec 2003. Lower 5 min MW imported
LOWER5MINLOCALDISPATCH	NUMBER(15,5)		Lower 5 min local dispatch
LOWER5MINLOCALPRICE	NUMBER(15,5)		Not used since Dec 2003. Local price of lower 5 min
LOWER5MINLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 5 min local requirement
LOWER5MINPRICE	NUMBER(15,5)		Not used since Dec 2003. Regional price of lower 5 min

LOWER5MINREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 5 min total requirement
LOWER5MINSUPPLYPRICE	NUMBER(15,5)		Not used since Dec 2003. Supply price of lower 5 min
LOWER60SECDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Lower 60 sec MW dispatch
LOWER60SECIMPORT	NUMBER(15,5)		Not used since Dec 2003. Lower 60 sec MW imported
LOWER60SECLOCALDISPATCH	NUMBER(15,5)		Lower 60 sec local dispatch
LOWER60SECLOCALPRICE	NUMBER(15,5)		Not used since Dec 2003. Local price of lower 60 sec
LOWER60SECLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 60 sec local requirement
LOWER60SECPRICE	NUMBER(15,5)		Not used since Dec 2003. Regional price of lower 60 sec
LOWER60SECREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 60 sec total requirement
LOWER60SECSUPPLYPRICE	NUMBER(15,5)		Not used since Dec 2003. Supply price of lower 60 sec
LOWER6SECDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Lower 6 sec MW dispatch
LOWER6SECIMPORT	NUMBER(15,5)		Not used since Dec 2003. Lower 6 sec MW imported
LOWER6SECLOCALDISPATCH	NUMBER(15,5)		Lower 6 sec local dispatch
LOWER6SECLOCALPRICE	NUMBER(15,5)		Not used since Dec 2003. Local price of lower 6 sec

LOWER6SECLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 6 sec local requirement
LOWER6SECPRICE	NUMBER(15,5)		Not used since Dec 2003. Regional price of lower 6 sec
LOWER6SECREQ	NUMBER(15,5)		Not used since Dec 2003. Lower 6 sec total requirement
LOWER6SECSUPPLYPRICE	NUMBER(15,5)		Not used since Dec 2003. Supply price of lower 6 sec
RAISE5MINDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Raise 5 min MW dispatch
RAISE5MINIMPORT	NUMBER(15,5)		Not used since Dec 2003. Raise 5 min MW imported
RAISE5MINLOCALDISPATCH	NUMBER(15,5)		Raise 5 min local dispatch
RAISE5MINLOCALPRICE	NUMBER(15,5)		Not used since Dec 2003. Local price of raise 5 min
RAISE5MINLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 5 min local requirement
RAISE5MINPRICE	NUMBER(15,5)		Not used since Dec 2003. Regional price of raise 5 min
RAISE5MINREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 5 min total requirement
RAISE5MINSUPPLYPRICE	NUMBER(15,5)		Not used since Dec 2003. Supply price of raise 5 min
RAISE60SECDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Raise 60 sec MW dispatch
RAISE60SECIMPORT	NUMBER(15,5)		Not used since Dec 2003. Raise 60 sec MW imported

RAISE60SECLOCALDISPATCH	NUMBER(15,5)		Raise 60 sec local dispatch
RAISE60SECLOCALPRICE	NUMBER(15,5)		Not used since Dec 2003. Local price of raise 60 sec
RAISE60SECLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 60 sec local requirement
RAISE60SECPRICE	NUMBER(15,5)		Not used since Dec 2003. Regional price of raise 60 sec
RAISE60SECREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 60 sec total requirement
RAISE60SECSUPPLYPRICE	NUMBER(15,5)		Not used since Dec 2003. Supply price of raise 60 sec
RAISE6SECDISPATCH	NUMBER(15,5)		Not used since Dec 2003. Raise 6 sec MW dispatch
RAISE6SECIMPORT	NUMBER(15,5)		Not used since Dec 2003. Raise 6 sec MW imported
RAISE6SECLOCALDISPATCH	NUMBER(15,5)		Raise 6 sec local dispatch
RAISE6SECLOCALPRICE	NUMBER(15,5)		Not used since Dec 2003. Local price of raise 6 sec
RAISE6SECLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 6 sec local requirement
RAISE6SECPRICE	NUMBER(15,5)		Not used since Dec 2003. Regional price of raise 6 sec
RAISE6SECREQ	NUMBER(15,5)		Not used since Dec 2003. Raise 6 sec total requirement
RAISE6SECSUPPLYPRICE	NUMBER(15,5)		Not used since Dec 2003. Supply price of raise 6 sec

LASTCHANGED	DATE		Period date and time
DATETIME	DATE	X	Period expressed as Date/Time
INITIALSUPPLY	NUMBER(15,5)		Sum of initial generation and import for region
CLEAREDSUPPLY	NUMBER(15,5)		Sum of cleared generation and import for region
LOWERREGIMPORT	NUMBER(15,5)		Not used since Dec 2003. Lower Regulation MW imported
LOWERREGLOCALDISPATCH	NUMBER(15,5)		Lower Regulation local dispatch
LOWERREGLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Lower Regulation local requirement
LOWERREGREQ	NUMBER(15,5)		Not used since Dec 2003. Lower Regulation total requirement
RAISEREGIMPORT	NUMBER(15,5)		Not used since Dec 2003. Raise Regulation MW imported
RAISEREGLOCALDISPATCH	NUMBER(15,5)		Raise Regulation local dispatch
RAISEREGLOCALREQ	NUMBER(15,5)		Not used since Dec 2003. Raise Regulation local requirement
RAISEREGREQ	NUMBER(15,5)		Not used since Dec 2003. Raise Regulation total requirement
RAISE5MINLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 5 min local requirement
RAISEREGLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise Reg local requirement
RAISE60SECLOCALVIOLATI	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 60 sec local

ON			requirement
RAISE6SECLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 6 sec local requirement
LOWER5MINLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 5 min local requirement
LOWERREGLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower Reg local requirement
LOWER60SECLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 60 sec local requirement
LOWER6SECLOCALVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 6 sec local requirement
RAISE5MINVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 5 min requirement
RAISEREGVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise Reg requirement
RAISE60SECVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 60 seconds requirement
RAISE6SECVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Raise 6 seconds requirement
LOWER5MINVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 5 min requirement
LOWERREGVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower Reg requirement

LOWER60SECVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 60 seconds requirement
LOWER6SECVIOLATION	NUMBER(15,5)		Not used since Dec 2003. Violation (MW) of Lower 6 seconds requirement
RAISE6SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise 6sec availability
RAISE60SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise 60sec availability
RAISE5MINACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise 5min availability
RAISEREGACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted raise reg availability
LOWER6SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower 6sec availability
LOWER60SECACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower 60sec availability
LOWER5MINACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower 5min availability
LOWERREGACTUALAVAILABILITY	NUMBER(16,6)		trapezium adjusted lower reg availability
DECAVAILABILITY	NUMBER(16,6)		generation availability taking into account daily energy constraints
LORSURPLUS	NUMBER(16,6)		Not used after Feb 2006. Total short term generation capacity reserve used in assessing lack of reserve condition
LRCSURPLUS	NUMBER(16,6)		Not used after Feb 2006. Total short term generation capacity

			reserve above the stated low reserve condition requirement
TOTALINTERMITTENTGENERATION	NUMBER(15,5)		Allowance made for non-scheduled generation in the demand forecast (MW).
DEMAND_AND_NONSCHEDGEN	NUMBER(15,5)		Sum of Cleared Scheduled generation, imported generation (at the region boundary) and allowances made for non-scheduled generation (MW).
UIGF	NUMBER(15,5)		Regional aggregated Unconstrained Intermittent Generation Forecast of Semi-scheduled generation (MW).
SEMISCHEDULE_CLEAREDMW	NUMBER(15,5)		Regional aggregated Semi-Schedule generator Cleared MW
SEMISCHEDULE_COMPLIANCEMW	NUMBER(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where Semi-Dispatch cap is enforced
SS_SOLAR_UIGF	Number(15,5)		Regional aggregated Unconstrained Intermittent Generation Forecast of Semi-scheduled generation (MW) where the primary fuel source is solar
SS_WIND_UIGF	Number (15,5)		Regional aggregated Unconstrained Intermittent Generation Forecast of Semi-scheduled generation (MW) where the primary fuel source is wind
SS_SOLAR_CLEAREDMW	Number(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where the primary fuel source is

			solar
SS_WIND_CLEAREDMW	Number(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where the primary fuel source is wind
SS_SOLAR_COMPLIANCEMW	Number(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where Semi-Dispatch cap is enforced and the primary fuel source is solar
SS_WIND_COMPLIANCEMW	Number(15,5)		Regional aggregated Semi-Schedule generator Cleared MW where Semi-Dispatch cap is enforced and the primary fuel source is wind
WDR_INITIALMW	NUMBER(15,5)		Regional aggregated MW value at start of interval for Wholesale Demand Response (WDR) units
WDR_AVAILABLE	NUMBER(15,5)		Regional aggregated available MW for Wholesale Demand Response (WDR) units
WDR_DISPATCHED	NUMBER(15,5)		Regional aggregated dispatched MW for Wholesale Demand Response (WDR) units
SS_SOLAR_AVAILABILITY	NUMBER(15,5)		For Semi-Scheduled units. Aggregate Energy Availability from Solar units in that region
SS_WIND_AVAILABILITY	NUMBER(15,5)		For Semi-Scheduled units. Aggregate Energy Availability from Wind units in that region
RAISE1SECLOCALDISPATCH	NUMBER(15,5)		Total Raise1Sec Dispatched in Region - RegionSolution element R1Dispatch attribute

LOWER1SECLOCALDISPATCH	NUMBER(15,5)		Total Lower1Sec Dispatched in Region - RegionSolution element L1Dispatch attribute
RAISE1SECACTUALAVAILABILITY	NUMBER(16,6)		Trapezium adjusted Raise1Sec availability (summated from UnitSolution)
LOWER1SECACTUALAVAILABILITY	NUMBER(16,6)		Trapezium adjusted Lower1Sec availability (summated from UnitSolution)
BDU_ENERGY_STORAGE	NUMBER(15,5)		Regional aggregated energy storage where the DUID type is BDU (MWh)
BDU_MIN_AVAIL	NUMBER(15,5)		Total available load side BDU summated for region (MW)
BDU_MAX_AVAIL	NUMBER(15,5)		Total available generation side BDU summated for region (MW)
BDU_CLEAREDMW_GEN	NUMBER(15,5)		Regional aggregated cleared MW where the DUID type is BDU. Net of export (Generation)
BDU_CLEAREDMW_LOAD	NUMBER(15,5)		Regional aggregated cleared MW where the DUID type is BDU. Net of import (Load)
BDU_INITIAL_ENERGY_STORAGE	NUMBER(15,5)		Energy Storage for BDU at the start of the interval(MWh) - Region Aggregated
DECGEN_INITIAL_ENERGY_STORAGE	NUMBER(15,5)		Energy storage for Daily Energy Constrained Scheduled Generating Units at the start of the interval(MWh) - Region Aggregated

12 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.

12.1 List of tables

Name	Comment	Visibility
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.	Public
SET_FCAS_CLAWBACK_REQ	This report contains the Interval Datetime affected by the Clawback Run and the adjusted FCAS requirement Costs.	Public
SET_FCAS_CLAWBACK_RUN_TRK	This Settlements FCAS Clawback Run Track report contains the Interval Datetime for which a Clawback has occurred and included in the Settlement run. The report will be produced only if there is any Clawback Run for the Interval date time in the Settlement Date	Public
SET_FCAS_CLAWBACK_UNITSOLN	This report contains the Interval Datetime affected by the Clawback Run and the reduced MW for the FCAS Service for each affected DUID.	Private

SET_FCAS_RECOVERY	SET_FCAS_RECOVERY shows reimbursements for the Frequency Control Ancillary Services (FCAS) to be recovered from participants. Beware of potential confusion with the table SETFCASRECOVERY, which reports reimbursements for Frequency Control Ancillary Services Compensation (now unused).	Private
SET_FCAS_REG_AMOUNT	This report contains the the FCAS Regulation Amounts that include FPP Amounts, Used Amounts and Unused Amounts calculated using the Contribution Factors	Private
SET_FCAS_REG_DEF_AMT	This report contains the the FCAS Regulation Amounts that include FPP Amounts, Used Amounts and Unused Amounts calculated using the Default Contribution Factors. This is when FPP Factors are not available for a particular interval and system used DCF in the calculation.	Private
SET_FCAS_REG_DEF_RESIDAMT	This report contains the the FCAS Regulation Residue Amounts that include FPP Residual Amounts, Used Residual Amounts and Unused Residual Amounts calculated using the Energy Ratio for each Requirement Region and the Default Residual CF	Private
SET_FCAS_REG_RESIDAMT	This report contains the the FCAS Regulation Residue Amounts that include FPP Residual Amounts, Used Residual Amounts and Unused Residual Amounts calculated using the Energy Ratio for each Requirement Region	Private

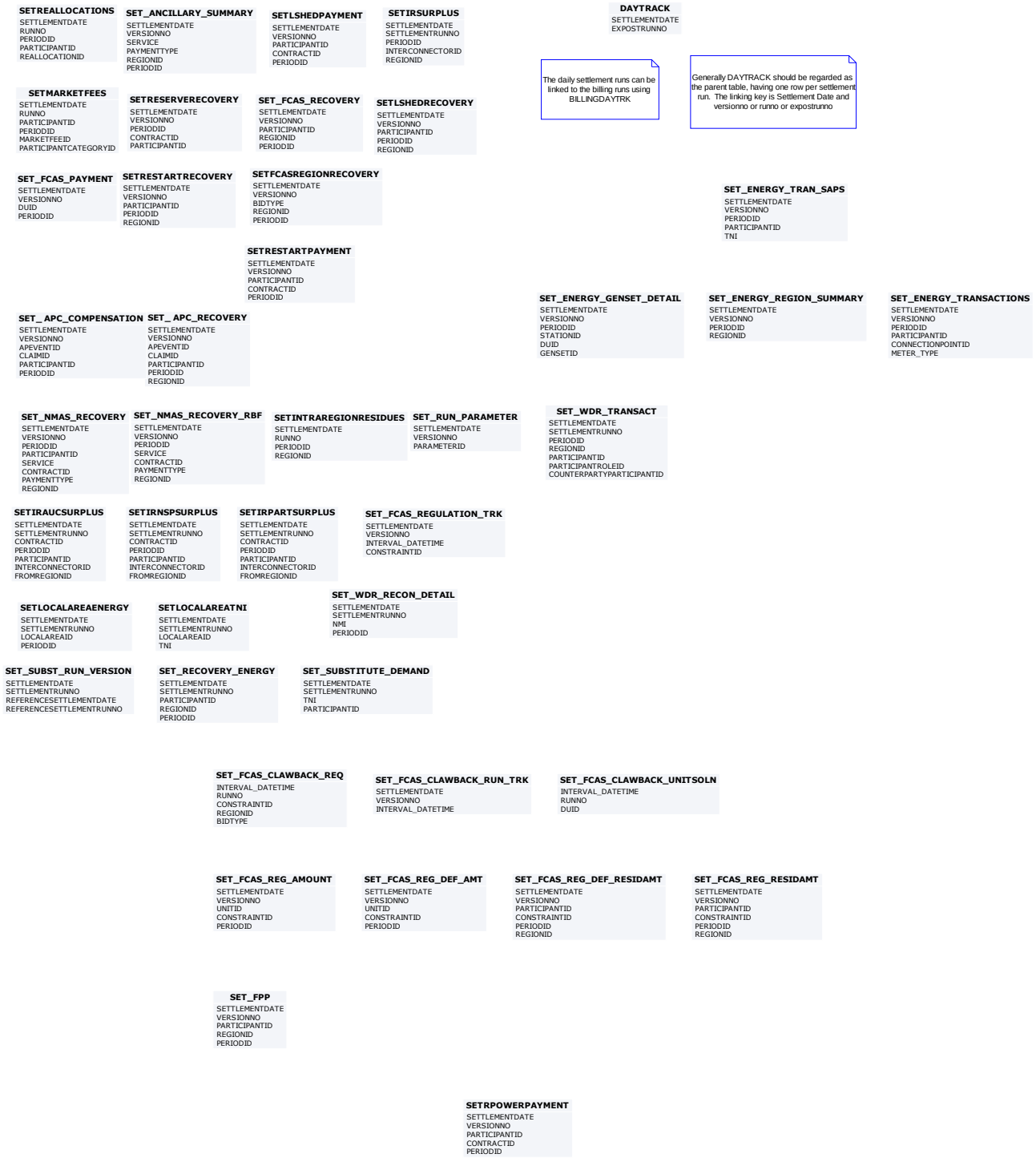
SET_FCAS_REGULATION_TRK	SET_FCAS_REGULATION_TRK shows FCAS Regulation Service Constraint tracking for Regional FCAS Regulation recovery	Public
SET_FPP	This report contains the summary of FPP Amounts for each ParticipantId in each region	Private
SET_NMAS_RECOVERY	SET_NMAS_RECOVERY sets out the NSCAS recovery data for payments other than testing This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.	Private
SET_NMAS_RECOVERY_RBF	SET_NMAS_RECOVERY_RBF publishes the RBF for NSCAS non testing payments on a half hourly basis. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.	Public
SETLSHEDPAYMENT	SETLSHEDPAYMENT shows specific payment details for load shed services by period. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.	Private

SETRPOWERPAYMENT	SETRPOWERPAYMENT shows specific payment details for Reactive power services by period. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.	Private

12.2 Diagram: Entities: Settlement Data

12.2.1 Card of diagram Entities: Settlement Data

Name	Entities: Settlement Data
Code	ENTITIES__SETTLEMENT_DATA
Comment	


SETREALLOCATIONS
SETTLEMENTDATE
RUNNO
PERIODID
PARTICIPANTID
REALLOCATIONID
SET_ANCILLARY_SUMMARY
SETTLEMENTDATE
VERSIONNO
SERVICE
PAYMENTTYPE
REGIONID
PERIODID
SETLSHEDPAYMENT
SETTLEMENTDATE
VERSIONNO
PARTICIPANTID
CONTRACTID
PERIODID
SETIRSURPLUS
SETTLEMENTDATE
SETTLEMENTRUNNO
PERIODID
INTERCONNECTORID
REGIONID
DAYTRACK
SETTLEMENTDATE
EXPOSTRUNNO
The daily settlement runs can be linked to the billing runs using BILLINGDAYTRK
Generally DAYTRACK should be regarded as the parent table, having one row per settlement run. The linking key is Settlement Date and versionno or runno or expostrunno
SETMARKETFEES
SETTLEMENTDATE
RUNNO
PARTICIPANTID
PERIODID
MARKETFEEID
PARTICIPANTCATEGORYID
SETRESERVERECOVERY
SETTLEMENTDATE
VERSIONNO
PERIODID
CONTRACTID
PARTICIPANTID
SET_FCAS_RECOVERY
SETTLEMENTDATE
VERSIONNO
PARTICIPANTID
REGIONID
PERIODID
SETLSHEDRECOVERY
SETTLEMENTDATE
VERSIONNO
PARTICIPANTID
PERIODID
REGIONID
SET_FCAS_PAYMENT
SETTLEMENTDATE
VERSIONNO
DUID
PERIODID
SETRESTARTRECOVERY
SETTLEMENTDATE
VERSIONNO
PARTICIPANTID
PERIODID
REGIONID
SETFCASREGIONRECOVERY
SETTLEMENTDATE
VERSIONNO
BIDTYPE
REGIONID
PERIODID
SET_ENERGY_TRAN_SAPS
SETTLEMENTDATE
VERSIONNO
PERIODID
PARTICIPANTID
TNI
SETRESTARTPAYMENT
SETTLEMENTDATE
VERSIONNO
PARTICIPANTID
CONTRACTID
PERIODID
SET_ENERGY_GENSET_DETAIL
SETTLEMENTDATE
VERSIONNO
PERIODID
STATIONID
DUID
GENSETID
SET_ENERGY_REGION_SUMMARY
SETTLEMENTDATE
VERSIONNO
PERIODID
REGIONID
SET_ENERGY_TRANSACTIONS
SETTLEMENTDATE
VERSIONNO
PERIODID
PARTICIPANTID
CONNECTIONPOINTID
METER_TYPE
SET_APC_COMPENSATION
SETTLEMENTDATE
VERSIONNO
APEVENTID
CLAIMID
PARTICIPANTID
PERIODID
SET_ APC_RECOVERY
SETTLEMENTDATE
VERSIONNO
APEVENTID
CLAIMID
PARTICIPANTID
PERIODID
REGIONID
SET_NMAS_RECOVERY
SETTLEMENTDATE
VERSIONNO
PERIODID
PARTICIPANTID
SERVICE
CONTRACTID
PAYMENTTYPE
REGIONID
SET_NMAS_RECOVERY_RBF
SETTLEMENTDATE
VERSIONNO
PERIODID
SERVICE
CONTRACTID
PAYMENTTYPE
REGIONID
SETINTRAREGIONRESIDUES
SETTLEMENTDATE
RUNNO
PERIODID
REGIONID
SET_RUN_PARAMETER
SETTLEMENTDATE
VERSIONNO
PARAMETERID
SET_WDR_TRANSACT
SETTLEMENTDATE
SETTLEMENTRUNNO
PERIODID
REGIONID
PARTICIPANTID
PARTICIPANTROLEID
COUNTERPARTYPARTICIPANTID
SETIRAUCSURPLUS
SETTLEMENTDATE
SETTLEMENTRUNNO
CONTRACTID
PERIODID
PARTICIPANTID
INTERCONNECTORID
FROMREGIONID
SETIRNSPSURPLUS
SETTLEMENTDATE
SETTLEMENTRUNNO
CONTRACTID
PERIODID
PARTICIPANTID
INTERCONNECTORID
FROMREGIONID
SETIRPARTSURPLUS
SETTLEMENTDATE
SETTLEMENTRUNNO
CONTRACTID
PERIODID
PARTICIPANTID
INTERCONNECTORID
FROMREGIONID
SET_FCAS_REGULATION_TRK
SETTLEMENTDATE
VERSIONNO
INTERVAL_DATETIME
CONSTRAINTID
SETLOCALAREAENERGY
SETTLEMENTDATE
SETTLEMENTRUNNO
LOCALAREAID
PERIODID
SETLOCALAREATNI
SETTLEMENTDATE
SETTLEMENTRUNNO
LOCALAREAID
TNI
SET_WDR_RECON_DETAIL
SETTLEMENTDATE
SETTLEMENTRUNNO
NMI
PERIODID
SET_SUBST_RUN_VERSION
SETTLEMENTDATE
SETTLEMENTRUNNO
REFERENCESETTLEMENTDATE
REFERENCESETTLEMENTRUNNO
SET_RECOVERY_ENERGY
SETTLEMENTDATE
SETTLEMENTRUNNO
PARTICIPANTID
REGIONID
PERIODID
SET_SUBSTITUTE_DEMAND
SETTLEMENTDATE
SETTLEMENTRUNNO
TNI
PARTICIPANTID
SET_FCAS_CLAWBACK_REQ
INTERVAL_DATETIME
RUNNO
CONSTRAINTID
REGIONID
BIDTYPE
SET_FCAS_CLAWBACK_RUN_TRK
SETTLEMENTDATE
VERSIONNO
INTERVAL_DATETIME
SET_FCAS_CLAWBACK_UNITSOLN
INTERVAL_DATETIME
RUNNO
DUID
SET_FCAS_REG_AMOUNT
SETTLEMENTDATE
VERSIONNO
UNITID
CONSTRAINTID
PERIODID
SET_FCAS_REG_DEF_AMT
SETTLEMENTDATE
VERSIONNO
UNITID
CONSTRAINTID
PERIODID
SET_FCAS_REG_DEF_RESIDAMT
SETTLEMENTDATE
VERSIONNO
PARTICIPANTID
CONSTRAINTID
PERIODID
REGIONID
SET_FCAS_REG_RESIDAMT
SETTLEMENTDATE
VERSIONNO
PARTICIPANTID
CONSTRAINTID
PERIODID
REGIONID
SET_FPP
SETTLEMENTDATE
VERSIONNO
PARTICIPANTID
REGIONID
PERIODID
SETRPOWERPAYMENT
SETTLEMENTDATE
VERSIONNO
PARTICIPANTID
CONTRACTID
PERIODID

12.3 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.

12.3.1 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.

12.3.2 Notes

Name	Comment	Value
Visibility		Public

12.3.3 Primary Key Columns

Name
SETTLEMENTDATE
EXPOSTRUNNO

12.3.4 Index Columns

Name
LASTCHANGED

12.3.5 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	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)	X	Settlement Run No
LASTCHANGED	DATE		Last date and time record changed
SETTLEMENTINTERVALLENGTH	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).
METER_CASEID	NUMBER(5,0)		The Metering Case Id used for the Settlement Run. For Estimate Daily Run this will be 0
METER_RUNTYPE	VARCHAR2(10)		The Type of Settlement Run(ESTIMATE/PRELIM/FINAL/REVISE)

12.4 Table: SET_FCAS_CLAWBACK_REQ

Name	SET_FCAS_CLAWBACK_REQ
Comment	This report contains the Interval Datetime affected by the Clawback Run and the adjusted FCAS requirement Costs.

12.4.1 Notes

Name	Comment	Value
Visibility		Public

12.4.2 Primary Key Columns

Name

INTERVAL_DATETIME

RUNNO

CONSTRAINTID

REGIONID

BIDTYPE

12.4.3 Content

Name	Data Type	Mandatory	Comment
INTERVAL_DATETIME	DATE	X	The Interval Datetime for which a the Clawback Run has been completed.
RUNNO	NUMBER(3,0)	X	The RunNo associated with the Clawback Run for the above interval date time.

CONSTRAINTID	VARCHAR2(20)	X	The FCAS Constraint ID used in the FCAS Requirements.
REGIONID	VARCHAR2(20)	X	The Region ID associated with each Constraint Requirements
BIDTYPE	VARCHAR2(10)	X	The FCAS Service - DUID offered type
REGION_ENABLEMENT	NUMBER(18,8)		The Overridden Regional Enablement. SUM(FCAS MW) from FCAS.Clawback_Unitsolution
CONSTRAINT_ENABLEMENT	NUMBER(18,8)		How much is enabled for this bid Type within the constraint. Sum(Regional_Enablement) Group by Interval_Datetime, ConstraintId, BidType
REGION_BASE_COST	NUMBER(18,8)		The Region Base Cost adjusted by the Regional Enablement Adj Ratio
BASE_COST	NUMBER(18,8)		The Base cost of the constraint before the regulation/contingency split. SUM(REGION_BASE_COST) Group by interval datetime, ConstraintId
ADJUSTED_COST	NUMBER(18,8)		The adjusted cost of the constraint for this service, after the regulation/contingency split. This is adjusted by the Base Cost Adjustment Ratio.
P_REGULATION	NUMBER(18,8)		P Regulation value is not affected by Clawback. This value is copied from Original Data source(DISPATCH)
PREV_REGION_ENABLEMENT	NUMBER(18,8)		The Regional Enablement before Override

PREV_CONSTRAINT_ENABLEMENT	NUMBER(18,8)		The Constraint Enablement before Override
PREV_REGION_BASE_COST	NUMBER(18,8)		The Region Base Cost before Override
PREV_BASE_COST	NUMBER(18,8)		The Base Cost before Override
PREV_ADJUSTED_COST	NUMBER(18,8)		The Adjusted Cost before override
LASTCHANGED	DATE		The Last Changed Date time of the record.

12.5 Table: SET_FCAS_CLAWBACK_RUN_TRK

Name	SET_FCAS_CLAWBACK_RUN_TRK
Comment	This Settlements FCAS Clawback Run Track report contains the Interval Datetime for which a Clawback has occurred and included in the Settlement run. The report will be produced only if there is any Clawback Run for the Interval date time in the Settlement Date

12.5.1 Notes

Name	Comment	Value
Visibility		Public

12.5.2 Primary Key Columns

Name

SETTLEMENTDATE

VERSIONNO

INTERVAL_DATETIME

12.5.3 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	The Settlement Date of the Billing Week
VERSIONNO	NUMBER(3,0)	X	The Settlement Run No
INTERVAL_DATETIME	DATE	X	The Interval Datetime for which a Clawback Run has been completed.
RUNNO	NUMBER(3,0)		The RunNo associated with the Clawback for the above interval

			date time.
CLAWBACK_DATE	DATE		The Date time the Clawback data has been loaded into the System for processing.
PREV_DATA_SOURCE	VARCHAR2(20)		The Clawback Data source Used. If this interval has any Clawback already applied in past then value will be CLAWBACK , else DISPATCH. For the first Clawback processing for the Interval the Source is DISPATCH.
LASTCHANGED	DATE		The Last changed Date time of the record

12.6 Table: SET_FCAS_CLAWBACK_UNITSOLN

Name SET_FCAS_CLAWBACK_UNITSOLN

Comment This report contains the Interval Datetime affected by the Clawback Run and the reduced MW for the FCAS Service for each affected DUID.

12.6.1 Notes

Name	Comment	Value
Visibility		Private

12.6.2 Primary Key Columns

Name

INTERVAL_DATETIME

RUNNO

DUID

12.6.3 Content

Name	Data Type	Mandatory	Comment
INTERVAL_DATETIME	DATE	X	The Interval Datetime for which a the Clawback Run has been completed.
RUNNO	NUMBER(3,0)	X	The RunNo associated with the Clawback Run for the above interval date time.
DUID	VARCHAR2(20)	X	The DUID for which the Reduced MW has been applied for the FCAS Service.

LOWER1SEC	NUMBER(18,8)		The Clawback Volume for the LOWER1SEC Service. If this service is not affected in that Clawback then retain Prev Value.
LOWER5MIN	NUMBER(18,8)		The Clawback Volume for the LOWER5MIN Service. If this service is not affected in that Clawback then retain Prev Value.
LOWER60SEC	NUMBER(18,8)		The Clawback Volume for the LOWER60SEC Service. If this service is not affected in that Clawback then retain Prev Value.
LOWER6SEC	NUMBER(18,8)		The Clawback Volume for the LOWER6SEC Service. If this service is not affected in that Clawback then retain Prev Value.
RAISE1SEC	NUMBER(18,8)		The Clawback Volume for the RAISE1SEC Service. If this service is not affected in that Clawback then retain Prev Value.
RAISE5MIN	NUMBER(18,8)		The Clawback Volume for the RAISE5MIN Service. If this service is not affected in that Clawback then retain Prev Value.
RAISE60SEC	NUMBER(18,8)		The Clawback Volume for the RAISE60SEC Service. If this service is not affected in that Clawback then retain Prev Value.
RAISE6SEC	NUMBER(18,8)		The Clawback Volume for the RAISE6SEC Service. If this service is not affected in that Clawback then retain Prev Value.
LOWERREG	NUMBER(18,8)		The Clawback Volume for the

			LOWERREG Service. If this service is not affected in that Clawback then retain Prev Value.
RAISEREG	NUMBER(18,8)		The Clawback Volume for the RAISEREG Service. If this service is not affected in that Clawback then retain Prev Value.
LASTCHANGED	DATE		The Last Changed Date time of the record.

12.7 Table: SET_FCAS_RECOVERY

Name	SET_FCAS_RECOVERY
Comment	SET_FCAS_RECOVERY shows reimbursements for the Frequency Control Ancillary Services (FCAS) to be recovered from participants. Beware of potential confusion with the table SETFCASRECOVERY, which reports reimbursements for Frequency Control Ancillary Services Compensation (now unused).

12.7.1 Description

SET_FCAS_RECOVERY data is confidential to the relevant participant.

Volume

Approximately 1, 500, 000 per week.

12.7.2 Notes

Name	Comment	Value
Visibility		Private

12.7.3 Primary Key Columns

Name
SETTLEMENTDATE
VERSIONNO
PARTICIPANTID
REGIONID
PERIODID

12.7.4 Index Columns

Name
LASTCHANGED

12.7.5 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	Settlement Date
VERSIONNO	VARCHAR2(3)	X	Settlement Run No
PARTICIPANTID	VARCHAR2(10)	X	Participant identifier
REGIONID	VARCHAR2(10)	X	Region Identifier
PERIODID	NUMBER(3,0)	X	Settlements Trading Interval.
LOWER6SEC_RECOVERY	NUMBER(18,8)		Recovery amount for the Lower 6 Second service attributable to customer connection points. NULL for Settlement date post the IESS rule effective date
RAISE6SEC_RECOVERY	NUMBER(18,8)		Recovery amount for the Raise 6 Second service attributable to customer connection points. NULL for Settlement dates post the IESS rule effective date
LOWER60SEC_RECOVERY	NUMBER(18,8)		Recovery amount for the Lower 60 Second service attributable to customer connection points. NULL for Settlement dates post the IESS rule effective date
RAISE60SEC_RECOVERY	NUMBER(18,8)		Recovery amount for the Raise 60 Second service attributable to customer connection points. NULL for Settlement dates post the IESS rule effective date

LOWER5MIN_RECOVERY	NUMBER(18,8)		Recovery amount for the Lower 5 Minute service attributable to customer connection points. NULL for Settlement dates post the IESS rule effective date
RAISE5MIN_RECOVERY	NUMBER(18,8)		Recovery amount for the Raise 5 Minute service attributable to customer connection points. NULL for Settlement dates post the IESS rule effective date
LOWERREG_RECOVERY	NUMBER(18,8)		For Settlement Date post the IESS rule effective date the column represent the Lower Regulation FCAS MPF Recovery Amount from Customer and Generator Connection Point MPFs only. Residue Recovery Amount is not included in this amount. For Settlement Dates past FPP Rule Effective Dates this column will be NULL.
RAISEREG_RECOVERY	NUMBER(18,8)		For Settlement Date post the IESS rule effective date the column represent the Raise Regulation FCAS MPF Recovery Amount from Customer and Generator Connection Point MPFs only. Residue Recovery Amount is not included in this amount. For Settlement Dates past FPP Rule Effective Dates this column will be NULL.
LASTCHANGED	DATE		Last date and time record changed
LOWER6SEC_RECOVERY_GEN	NUMBER(18,8)		Recovery amount for the Lower 6 Second service attributable to generator connection points. NULL

			for Settlement dates post the IESS rule effective date
RAISE6SEC_RECOVERY_GEN	NUMBER(18,8)		Recovery amount for the Raise 6 Second service attributable to generator connection points. NULL for Settlement dates post the IESS rule effective date
LOWER60SEC_RECOVERY_GEN	NUMBER(18,8)		Recovery amount for the Lower 60 Second service attributable to generator connection points. NULL for Settlement dates post the IESS rule effective date
RAISE60SEC_RECOVERY_GEN	NUMBER(18,8)		Recovery amount for the Raise 60 Second service attributable to generator connection points. NULL for Settlement dates post the IESS rule effective date
LOWER5MIN_RECOVERY_GEN	NUMBER(18,8)		Recovery amount for the Lower 5 Minute service attributable to generator connection points. NULL for Settlement dates post the IESS rule effective date
RAISE5MIN_RECOVERY_GEN	NUMBER(18,8)		Recovery amount for the Raise 5 Minute service attributable to generator connection points. NULL for Settlement dates post the IESS rule effective date
LOWERREG_RECOVERY_GEN	NUMBER(18,8)		For Settlement date prior to the IESS rule effective date, the column represent Sum of MPF Lower Regulation recovery amount from Generator Connection Points. NULL for Settlement dates post the IESS rule effective date.

RAISEREG_RECOVERY_GEN	NUMBER(18,8)		For Settlement date prior to the IESS rule effective date, the column represent Sum of MPF Raise Regulation recovery amount from Generator Connection Points. NULL for Settlement dates post the IESS rule effective date.
RAISE1SEC_RECOVERY	NUMBER(18,8)		Customer recovery amount for the very fast raise service. NULL for Settlement dates post the IESS rule effective date
LOWER1SEC_RECOVERY	NUMBER(18,8)		Customer recovery amount for the very fast lower service. NULL for Settlement dates post the IESS rule effective date
RAISE1SEC_RECOVERY_GEN	NUMBER(18,8)		Generator recovery amount for the very fast raise service. NULL for Settlement dates post the IESS rule effective date
LOWER1SEC_RECOVERY_GEN	NUMBER(18,8)		Generator recovery amount for the very fast lower service. NULL for Settlement dates post the IESS rule effective date
LOWERREG_ACE	NUMBER(18,8)		The Lower Regulation FCAS Residue Recovery Amount using ACE MWh values excluding the MPF Connection Points. NULL value for Settlement Dates prior to the IESS rule effective date. For Settlement dates past FPP Rule Effective date this column will be LOWERREG_USED_ACE + LOWERREG_UNUSED_ACE
RAISEREG_ACE	NUMBER(18,8)		The Raise Regulation FCAS Residue Recovery Amount using ACE MWh

			values excluding the MPF Connection Points. NULL Value for Settlement Dates prior to the IESS rule effective date. For Settlement dates past FPP Rule Effective date this column will be RAISEREG_USED_ACE + RAISEREG_UNUSED_ACE
RAISE1SEC_ACE	NUMBER(18,8)		The Raise1Sec FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
RAISE1SEC_ASOE	NUMBER(18,8)		The Raise1Sec FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
LOWER1SEC_ACE	NUMBER(18,8)		The Lower1Sec FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
LOWER1SEC_ASOE	NUMBER(18,8)		The Lower1Sec FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
RAISE6SEC_ACE	NUMBER(18,8)		The Raise6Sec FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
RAISE6SEC_ASOE	NUMBER(18,8)		The Raise6Sec FCAS Recovery Amount for the Participant and

			Region from ASOE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
LOWER6SEC_ACE	NUMBER(18,8)		The Lower6Sec FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
LOWER6SEC_ASOE	NUMBER(18,8)		The Lower6Sec FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
RAISE60SEC_ACE	NUMBER(18,8)		The Raise60Sec FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
RAISE60SEC_ASOE	NUMBER(18,8)		The Raise60Sec FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
LOWER60SEC_ACE	NUMBER(18,8)		The Lower60Sec FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
LOWER60SEC_ASOE	NUMBER(18,8)		The Lower60Sec FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
RAISE5MIN_ACE	NUMBER(18,8)		The Raise5Min FCAS Recovery Amount for the Participant and

			Region from ACE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
RAISE5MIN_ASOE	NUMBER(18,8)		The Raise5Min FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
LOWER5MIN_ACE	NUMBER(18,8)		The Lower5Min FCAS Recovery Amount for the Participant and Region from ACE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
LOWER5MIN_ASOE	NUMBER(18,8)		The Lower5Min FCAS Recovery Amount for the Participant and Region from ASOE MWh Portion. NULL Value for Settlement Dates prior to the IESS rule effective date.
LOWERREG_ASOE	NUMBER(18,8)		This column is LOWERREG_USED_ASOE + LOWERREG_UNUSED_ASOE. For Settlement dates prior to FPP Rule Effective date this column will be NULL
RAISEREG_ASOE	NUMBER(18,8)		This column is RAISEREG_USED_ASOE + RAISEREG_UNUSED_ASOE. For Settlement dates prior to FPP Rule Effective date this column will be NULL
LOWERREG_USED	NUMBER(18,8)		The LowerReg Used amount for the Participant and Region
RAISEREG_USED	NUMBER(18,8)		The RaiseReg Used amount for the Participant and Region

LOWERREG_UNUSED	NUMBER(18,8)		The LowerReg Unused amount for the Participant and Region
RAISEREG_UNUSED	NUMBER(18,8)		The RaiseReg Unused amount for the Participant and Region
LOWERREG_USED_ACE	NUMBER(18,8)		The LowerReg Used ACE Portion amount for the Participant and Region
LOWERREG_USED_ASOE	NUMBER(18,8)		The LowerReg Used ASOE Portion amount for the Participant and Region
LOWERREG_USED_RESIDUAL	NUMBER(18,8)		The LowerReg Used Residual amount for the Participant and Region(LowerReg_Used_ACE + LowerReg_Used_ASOE)
RAISEREG_USED_ACE	NUMBER(18,8)		The RaiseReg Used ACE Portion amount for the Participant and Region
RAISEREG_USED_ASOE	NUMBER(18,8)		The RaiseReg Used ASOE Portion amount for the Participant and Region
RAISEREG_USED_RESIDUAL	NUMBER(18,8)		The RaiseReg Used Residual amount for the Participant and Region RaiseReg_Used_ACE + RaiseReg_Used_ASOE
LOWERREG_UNUSED_ACE	NUMBER(18,8)		The LowerReg Unused ACE Portion amount for the Participant and Region
LOWERREG_UNUSED_ASOE	NUMBER(18,8)		The LowerReg Unused ASOE Portion amount for the Participant and Region
LOWERREG_UNUSED_RESI	NUMBER(18,8)		The LowerReg Unused Residual amount for the Participant and

DUAL			Region LowerReg_Unused_ACE + LowerReg_Unused_ASOE
RAISEREG_UNUSED_ACE	NUMBER(18,8)		The RaiseReg Unused ACE Portion amount for the Participant and Region
RAISEREG_UNUSED_ASOE	NUMBER(18,8)		The RaiseReg Unused ASOE Portion amount for the Participant and Region
RAISEREG_UNUSED_RESIDUAL	NUMBER(18,8)		The RaiseReg Unused Residual amount for the Participant and Region RaiseReg_Unused_ACE + RaiseReg_Unused_ASOE

12.8 Table: SET_FCAS_REG_AMOUNT

Name	SET_FCAS_REG_AMOUNT
Comment	This report contains the the FCAS Regulation Amounts that include FPP Amounts, Used Amounts and Unused Amounts calculated using the Contribution Factors

12.8.1 Notes

Name	Comment	Value
Visibility		Private

12.8.2 Primary Key Columns

Name

SETTLEMENTDATE

VERSIONNO

UNITID

CONSTRAINTID

PERIODID

12.8.3 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	The Settlement Date of the Billing Week
VERSIONNO	NUMBER(3,0)	X	The Settlement Run No
UNITID	VARCHAR2(20)	X	The UNITID with CF factor assigned. This is a DUID or a TNI. Refer table

			FPP_CONTRIBUTION_FACTOR
CONSTRAINTID	VARCHAR2(20)	X	The FCAS Regulation Constraint ID
PERIODID	NUMBER(3,0)	X	The Period ID Identifier
PARTICIPANTID	VARCHAR2(20)		The Participant Id Identifier
BIDTYPE	VARCHAR2(10)		The BidType LOWERREG or RAISEREG for the Constraint ID
FPP_AMOUNT	NUMBER(18,8)		The FPP Amount calculated for the Constraint and UNITID using the FPP Contribution Factor
USED_AMOUNT	NUMBER(18,8)		The Regulation Used Recovery Amount from the eligible Units using Negative CF Value
UNUSED_AMOUNT	NUMBER(18,8)		The Regulation Unused Recovery Amount from Eligible Units using DCF Value
LASTCHANGED	DATE		The Last Changed Date time of the record.

12.9 Table: SET_FCAS_REG_DEF_AMT

Name	SET_FCAS_REG_DEF_AMT
Comment	This report contains the the FCAS Regulation Amounts that include FPP Amounts, Used Amounts and Unused Amounts calculated using the Default Contribution Factors. This is when FPP Factors are not available for a particular interval and system used DCF in the calculation.

12.9.1 Notes

Name	Comment	Value
Visibility		Private

12.9.2 Primary Key Columns

Name

SETTLEMENTDATE

VERSIONNO

UNITID

CONSTRAINTID

PERIODID

12.9.3 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	The Settlement Date of the Billing Week
VERSIONNO	NUMBER(3,0)	X	The Settlement Run No
UNITID	VARCHAR2(20)	X	The UnitId with CF factor assigned. This is a DUID or a TNI. Refer table

			FPP_CONTRIBUTION_FACTOR
CONSTRAINTID	VARCHAR2(20)	X	The FCAS Regulation Constraint ID
PERIODID	NUMBER(3,0)	X	The Period ID Identifier
PARTICIPANTID	VARCHAR2(20)		The Participant Id Identifier
BIDTYPE	VARCHAR2(10)		The BidType LOWERREG or RAISEREG for the Constraint ID
UNUSED_AMOUNT	NUMBER(18,8)		The Regulation Unused Recovery Amount from Eligible Units using DCF Value
LASTCHANGED	DATE		The Last Changed Date time of the record.

12.10 Table: SET_FCAS_REG_DEF_RESIDAMT

Name	SET_FCAS_REG_DEF_RESIDAMT
Comment	This report contains the the FCAS Regulation Residue Amounts that include FPP Residual Amounts, Used Residual Amounts and Unused Residual Amounts calculated using the Energy Ratio for each Requirement Region and the Default Residual CF

12.10.1 Notes

Name	Comment	Value
Visibility		Private

12.10.2 Primary Key Columns

Name

SETTLEMENTDATE

VERSIONNO

PARTICIPANTID

CONSTRAINTID

PERIODID

REGIONID

12.10.3 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	The Settlement Date of the Billing Week
VERSIONNO	NUMBER(3,0)	X	The Settlement Run No

PARTICIPANTID	VARCHAR2(20)	X	The Participant Id Identifier
CONSTRAINTID	VARCHAR2(20)	X	The FCAS Regulation Constraint ID
PERIODID	NUMBER(3,0)	X	The Period ID Identifier
REGIONID	VARCHAR2(20)	X	The RegionId used for the residual calculation. This is the Constraint Requirement Region.
BIDTYPE	VARCHAR2(10)		The BidType LOWERREG or RAISEREG for the Constraint ID
ACE_MWH	NUMBER(18,8)		The ACE MWh value that is used for the Residual Calculation.(Excluding CPID with CF)
ASOE_MWH	NUMBER(18,8)		The ASOE MWh value that is used for the Residual Calculation.(Excluding CPID with CF)
RESIDUAL_MWH	NUMBER(18,8)		Sum of ABS(ACE_MWh) + ASOE_MWh. The MWh is not netted for residual calculation. This is not used in calculation at the moment. This is only used for FPP Residual
UNUSED_ACE_AMOUNT	NUMBER(18,8)		The Unused Recovery ACE Amount calculated using the ACE MWh value of the requirement regions.
UNUSED_ASOE_AMOUNT	NUMBER(18,8)		The Unused Recovery ASOE Amount is always 0 as FCAS Reg Residual is recovered from ACE MWh Only

UNUSED_RESIDUAL_AMOUNT	NUMBER(18,8)		The Unused Residual Amount is same as Unused ACE Amount.
LASTCHANGED	DATE		The Last Changed Date time of the record.

12.11 Table: SET_FCAS_REG_RESIDAMT

Name SET_FCAS_REG_RESIDAMT

Comment This report contains the the FCAS Regulation Residue Amounts that include FPP Residual Amounts, Used Residual Amounts and Unused Residual Amounts calculated using the Energy Ratio for each Requirement Region

12.11.1 Notes

Name	Comment	Value
Visibility		Private

12.11.2 Primary Key Columns

Name

SETTLEMENTDATE

VERSIONNO

PARTICIPANTID

CONSTRAINTID

PERIODID

REGIONID

12.11.3 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	The Settlement Date of the Billing Week
VERSIONNO	NUMBER(3,0)	X	The Settlement Run No
PARTICIPANTID	VARCHAR2(20	X	The Participant Id Identifier

	)		
CONSTRAINTID	VARCHAR2(20)	X	The FCAS Regulation Constraint ID
PERIODID	NUMBER(3,0)	X	The Period ID Identifier
REGIONID	VARCHAR2(20)	X	The RegionId used for the residual calculation. This is the Constraint Requirement Region.
BIDTYPE	VARCHAR2(10)		The BidType LOWERREG or RAISEREG for the Constraint ID
ACE_MWH	NUMBER(18,8)		The ACE MWh value that is used for the Residual Calculation.(Excluding CPID with CF)
ASOE_MWH	NUMBER(18,8)		The ASOE MWh value that is used for the Residual Calculation.(Excluding CPID with CF). ASOE MWh is only used for FPP Residual.
RESIDUAL_MWH	NUMBER(18,8)		Sum of ABS(ACE_MWh) + ASOE_MWh. The MWh is not netted for residual calculation. This is only used for FPP Residual
FPP_ACE_AMOUNT	NUMBER(18,8)		The FPP ACE Amount calculated using the portion of ACE MWh value against the Total residual MWh of the requirement regions.
FPP_ASOE_AMOUNT	NUMBER(18,8)		The FPP ASOE Amount calculated using the portion of ASOE MWh value against the Total residual MWh of the requirement regions.
FPP_RESIDUAL_AMOUNT	NUMBER(18,8)		Sum of FPP_ACE_Amount + FPP_ASOE_Amount

USED_ACE_AMOUNT	NUMBER(18,8)		The Used Recovery ACE Amount calculated using the ACE MWh value of the requirement regions.
USED_ASOE_AMOUNT	NUMBER(18,8)		The Used Recovery ASOE Amount is always 0 as FCAS Regulation Residual is calculated using ACE MWh values only.
USED_RESIDUAL_AMOUNT	NUMBER(18,8)		The Used Residual Amount is Same as Used_ACE_Amount
UNUSED_ACE_AMOUNT	NUMBER(18,8)		The Unused Recovery ACE Amount calculated using the portion of ACE MWh value against the Total residual MWh of the requirement regions.
UNUSED_ASOE_AMOUNT	NUMBER(18,8)		The Unused Recovery ASOE Amount is always 0 as as FCAS Regulation Residual is calculated using ACE MWh values only.
UNUSED_RESIDUAL_AMOUNT	NUMBER(18,8)		The Unused Residual Amount is Same as Unused_ACE_Amount
LASTCHANGED	DATE		The Last Changed Date time of the record.

12.12 Table: SET_FCAS_REGULATION_TRK

Name	SET_FCAS_REGULATION_TRK
Comment	SET_FCAS_REGULATION_TRK shows FCAS Regulation Service Constraint tracking for Regional FCAS Regulation recovery

12.12.1 Description

SET_FCAS_REGULATION_TRK contains public data and is available to all participants.

Volume

Approximately 350,000 per week.

12.12.2 Notes

Name	Comment	Value
Visibility		Public

12.12.3 Primary Key Columns

Name
SETTLEMENTDATE
VERSIONNO
INTERVAL_DATETIME
CONSTRAINTID

12.12.4 Index Columns

Name
LASTCHANGED

12.12.5 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	Settlement Date
VERSIONNO	NUMBER(3,0)	X	Settlement Run No
INTERVAL_DATETIME	DATE	X	Dispatch Interval Date Time
CONSTRAINTID	VARCHAR2(20)	X	Generic Constraint ID
CMPF	NUMBER(18,8)		Constraint Market Participant Factor. This column is NULL for Settlement Dates past FPP Rule Effective Date
CRMPF	NUMBER(18,8)		Constraint Residual Market Participant Factor. This column is NULL for Settlement Dates past FPP Rule Effective Date
RECOVERY_FACTOR_CMPF	NUMBER(18,8)		Recovery factor for CMPF based recovery. This column is NULL for Settlement Dates past FPP Rule Effective Date
RECOVERY_FACTOR_CRMPF	NUMBER(18,8)		Recovery factor for CRMPF based recovery. This column is NULL for Settlement Dates past FPP Rule Effective Date.
LASTCHANGED	DATE		Last date and time record changed
USESUBSTITUTEDEMAND	NUMBER(1,0)		Flag to indication that substitute demand was used to recover this requirement
REQUIREMENTDEMAND	NUMBER(18,8)		the aggregate customer demand value used to recover the cost of

			this requirement
FPP_AMOUNT	NUMBER(18,8)		The total FPP Amount from Eligible Units for the Constraint Id
FPP_RESIDUAL_AMOUNT	NUMBER(18,8)		The total FPP Residual Amount for the Constraint Id
USED_AMOUNT	NUMBER(18,8)		The total Reg Used Amount from Eligible Units for the Constraint Id
USED_RESIDUAL_AMOUNT	NUMBER(18,8)		The total Reg Used Residual Amount for the Constraint Id
UNUSED_AMOUNT	NUMBER(18,8)		The total Reg Unused Amount from Eligible Units for the Constraint Id
UNUSED_RESIDUAL_AMOUNT	NUMBER(18,8)		The total Reg Unused Residual Amount for the Constraint Id
P_REGULATION	NUMBER(18,8)		The PRegulation Value from Constraints FCAS Requirement data
TSFCAS	NUMBER(18,8)		The Adjusted Cost Value from Constraints FCAS Requirement data
RCR	NUMBER(18,8)		The RCR Value from the FPP Inputs for the Constraint Id used to calculate FPP Amount
USAGE_VALUE	NUMBER(18,8)		The Usage Value from the FPP Inputs for the Constraint Id used to calculate Used Amount
RCF	NUMBER(18,8)		The RCF Value from the FPP Inputs for the Constraint Id used to calculate FPP Residual
NRCF	NUMBER(18,8)		The NRCF Value from the FPP Inputs for the Constraint Id used to

			calculate Used Residual Amount
DRCF	NUMBER(18,8)		The DRCF Value from the FPP Inputs for the Constraint Id used to calculate Unused Residual Amount
RESIDUALTOTAL_MWH	NUMBER(18,8)		The total residual MWh(ABS(ACE_MWh) + ASOE(MWh)) of the requirement regions.

12.13 Table: SET_FPP

Name SET_FPP

Comment This report contains the summary of FPP Amounts for each ParticipantId in each region

12.13.1 Notes

Name	Comment	Value
Visibility		Private

12.13.2 Primary Key Columns

Name

SETTLEMENTDATE

VERSIONNO

PARTICIPANTID

REGIONID

PERIODID

12.13.3 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	The Settlement Date of the Billing Week
VERSIONNO	NUMBER(3,0)	X	The Settlement Run No
PARTICIPANTID	VARCHAR2(20)	X	The Participant Id Identifier

REGIONID	VARCHAR2(20)	X	The RegionId used for the residual calculation. This is the Constraint Requirement Region.
PERIODID	NUMBER(3,0)	X	The Period ID Identifier
LOWERREG_AMOUNT	NUMBER(18,8)		The LowerReg Amount from the Eligible Units.
LOWERREG_ACE_AMOUNT	NUMBER(18,8)		The LowerReg Amount from the ACE Portion of the Residual amount
LOWERREG_ASOE_AMOUNT	NUMBER(18,8)		The LowerReg Amount from the ASOE Portion of the Residual amount
LOWERREG_RESIDUAL_AMOUNT	NUMBER(18,8)		The Lower Reg Residual Amount which is also LowerReg_ACE_Amount + LowerReg_ASOE_Amount
RAISEREG_AMOUNT	NUMBER(18,8)		The RaiseReg Amount from the Eligible Units.
RAISEREG_ACE_AMOUNT	NUMBER(18,8)		The RaiseReg Amount from the ACE Portion of the Residual amount
RAISEREG_ASOE_AMOUNT	NUMBER(18,8)		The RaiseReg Amount from the ASOE Portion of the Residual amount
RAISEREG_RESIDUAL_AMOUNT	NUMBER(18,8)		The Raise Reg Residual Amount which is also RaiseReg_ACE_Amount + RaiseReg_ASOE_Amount
LASTCHANGED	DATE		The Last Changed Date time of the record.

12.14 Table: SET_NMAS_RECOVERY

Name	SET_NMAS_RECOVERY
Comment	SET_NMAS_RECOVERY sets out the NSCAS recovery data for payments other than testing This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.

12.14.1 Notes

Name	Comment	Value
Visibility		Private

12.14.2 Primary Key Columns

Name
SETTLEMENTDATE
VERSIONNO
PERIODID
PARTICIPANTID
SERVICE
CONTRACTID
PAYMENTTYPE
REGIONID

12.14.3 Index Columns

Name
LASTCHANGED

12.14.4 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	Settlement Date
VERSIONNO	NUMBER(3,0)	X	Settlement run number
PERIODID	NUMBER(3,0)	X	Settlements Trading Interval.
PARTICIPANTID	VARCHAR(20)	X	The Participant from whom the amount is recovered
SERVICE	VARCHAR(10)	X	The type of NSCAS service. Current value values are: - REACTIVE - LOADSHED - RESTART
CONTRACTID	VARCHAR(10)	X	The NMAS Contract Id
PAYMENTTYPE	VARCHAR(20)	X	The type of payment being recovered. Valid values are: - AVAILABILITY - ENABLEMENT - COMPENSATION
REGIONID	VARCHAR(10)	X	The region from where the amount is recovered
RBF	NUMBER(18,8)		The Benefitting Factor for the RegionId
PAYMENT_AMOUNT	NUMBER(18,8)		The total Payment Amount to recover from all benefitting regions
PARTICIPANT_ENERGY	NUMBER(18,8)		The Participant energy in MWh for

			the period. NULL Value for Settlement Dates post IESS rule effective date.
REGION_ENERGY	NUMBER(18,8)		The RegionId energy in MWh for the period. NULL Value for Settlement Dates post IESS rule effective date.
RECOVERY_AMOUNT	NUMBER(18,8)		The Total recovery amount for the period for the PARTICIPANTID and REGIONID. For Settlement dates prior to the IESS rule effective date Sum of RECOVERY_AMOUNT_CUSTOMER + RECOVERY_AMOUNT_GENERATOR and Post IESS it is sum of RECOVERYAMOUNT_ACE + RECOVERYAMOUNT_ASOE.
LASTCHANGED	DATE		The Last Updated date and time
PARTICIPANT_GENERATION	NUMBER(18,8)		Participant Generator Energy in the benefitting region. NULL Value for Settlement Dates post IESS rule effective date.
REGION_GENERATION	NUMBER(18,8)		The generator energy in the benefitting region. NULL Value for Settlement Dates post IESS rule effective date.
RECOVERY_AMOUNT_CUSTOMER	NUMBER(18,8)		The recovery amount allocated to customers. NULL Value for Settlement Dates post IESS rule effective date.
RECOVERY_AMOUNT_GENERATOR	NUMBER(18,8)		The recovery amount allocated to generators. NULL Value for Settlement Dates post IESS rule

			effective date.
PARTICIPANT_ACE_MWH	NUMBER(18,8)		The ACE MWh value for the Participant used in the Recovery Amount Calculation. NULL Value for Settlement Dates prior to the IESS rule effective date.
REGION_ACE_MWH	NUMBER(18,8)		The Regional ACE MWh value used in the Recovery Amount Calculation. NULL Value for Settlement Dates prior to the IESS rule effective date.
PARTICIPANT_ASOE_MWH	NUMBER(18,8)		The ASOE MWh value for the Participant used in the Recovery Amount Calculation. NULL Value for Settlement Dates prior to the IESS rule effective date.
REGION_ASOE_MWH	NUMBER(18,8)		The Regional ASOE MWh value used in the Recovery Amount Calculation. NULL Value for Settlement Dates prior to the IESS rule effective date.
RECOVERYAMOUNT_ACE	NUMBER(18,8)		The Recovery dollar amount for the Participant for the NMAS Contract Id calculated using the ACE MWh values for eligible services. NULL Value for Settlement Dates prior to the IESS rule effective date.
RECOVERYAMOUNT_ASOE	NUMBER(18,8)		The Recovery dollar amount for the Participant for the NMAS Contract Id calculated using the ASOE_MWh values for eligible services. NULL Value for Settlement Dates prior to the IESS rule effective date.

12.15 Table: SET_NMAS_RECOVERY_RBF

Name	SET_NMAS_RECOVERY_RBF
Comment	SET_NMAS_RECOVERY_RBF publishes the RBF for NSCAS non testing payments on a half hourly basis. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.

12.15.1 Notes

Name	Comment	Value
Visibility		Public

12.15.2 Primary Key Columns

Name
SETTLEMENTDATE
VERSIONNO
PERIODID
SERVICE
CONTRACTID
PAYMENTTYPE
REGIONID

12.15.3 Index Columns

Name
LASTCHANGED

12.15.4 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	Settlement Date
VERSIONNO	NUMBER(3,0)	X	Settlement run number
PERIODID	NUMBER(3,0)	X	Settlements Trading Interval.
SERVICE	VARCHAR(10)	X	The type of NSCAS service. Current value values are: - REACTIVE - LOADSHED
CONTRACTID	VARCHAR(10)	X	The NMAS Contract Id
PAYMENTTYPE	VARCHAR(20)	X	The type of payment being recovered. Valid values are: - AVAILABILITY - ENABLEMENT - COMPENSATION
REGIONID	VARCHAR(10)	X	The region from where the amount is recovered
RBF	NUMBER(18,8)		The Benefitting Factor for the RegionId
PAYMENT_AMOUNT	NUMBER(18,8)		The total Payment Amount to recover from all benefitting regions
RECOVERY_AMOUNT	NUMBER(18,8)		The Total recovery amount for the period for the REGIONID
LASTCHANGED	DATE		The Last Updated date and time

12.16 Table: SETLSHEDPAYMENT

Name	SETLSHEDPAYMENT
Comment	SETLSHEDPAYMENT shows specific payment details for load shed services by period. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.

12.16.1 Description

SETLSHEDPAYMENT data is confidential to the relevant participant.

Source

SETLSHEDPAYMENT updates with each settlement run.

12.16.2 Notes

Name	Comment	Value
Visibility		Private

12.16.3 Primary Key Columns

Name
SETTLEMENTDATE
VERSIONNO
PARTICIPANTID
CONTRACTID
PERIODID

12.16.4 Index Columns

Name

PARTICIPANTID

12.16.5 Index Columns

Name

LASTCHANGED

12.16.6 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	Settlement Date
VERSIONNO	NUMBER(3,0)	X	Settlement Run No.
PARTICIPANTID	VARCHAR2(10)	X	Participant Identifier
CONTRACTID	VARCHAR2(10)	X	AS Contract Identifier
PERIODID	NUMBER(3,0)	X	Settlements Trading Interval.
DUID	VARCHAR2(10)		Dispatchable Unit Identifier
REGIONID	VARCHAR2(10)		Region Identifier
TLF	NUMBER(7,5)		Transmission Loss Factor
RRP	NUMBER(15,5)		Regional Reference Price
LSEPRICE	NUMBER(15,5)		Load Shed Enabling Price
MCPPRICE	NUMBER(15,5)		Minimum Compensation Price
LSCR	NUMBER(4,0)		Load Shed Control Range

LSEPAYMENT	NUMBER(15,5)		Load Shed Enabling Payment
CCPAYMENT	NUMBER(15,5)		Compensation Payment
CONSTRAINEDMW	NUMBER(15,5)		Cleared MW of unit at time of load shed usage
UNCONSTRAINEDMW	NUMBER(15,5)		Unconstrained MW of unit at time of load shed usage
ALS	NUMBER(15,5)		Amount of load shed
INITIALDEMAND	NUMBER(15,5)		Initial demand of unit at time of load shed usage
FINALDEMAND	NUMBER(15,5)		Final demand of unit at time of load shed usage
CONTRACTVERSIONNO	NUMBER(3,0)		AS Contract Version No.
OFFERDATE	DATE		Re-offer offer date
OFFERVERSIONNO	NUMBER(3,0)		Re-Offer Version No.
LASTCHANGED	DATE		Last date and time record changed
AVAILABILITYPAYMENT	NUMBER(16,6)		Payment amount for the Load Shed Availability service

12.17 Table: SETRPOWERPAYMENT

Name	SETRPOWERPAYMENT
Comment	SETRPOWERPAYMENT shows specific payment details for Reactive power services by period. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.

12.17.1 Description

SETRPOWERPAYMENT data is confidential to the relevant participant.

Source

SETRPOWERPAYMENT updates with each settlement run.

12.17.2 Notes

Name	Comment	Value
Visibility		Private

12.17.3 Primary Key Columns

Name
SETTLEMENTDATE
VERSIONNO
PARTICIPANTID
CONTRACTID
PERIODID

12.17.4 Index Columns

Name

LASTCHANGED

12.17.5 Content

Name	Data Type	Mandatory	Comment
SETTLEMENTDATE	DATE	X	Settlement Date
VERSIONNO	NUMBER(3,0)	X	Settlement Run No.
PARTICIPANTID	VARCHAR2(10)	X	Participant Identifier
CONTRACTID	VARCHAR2(10)	X	AS Contract Identifier
PERIODID	NUMBER(3,0)	X	Settlements Trading Interval.
DUID	VARCHAR2(10)		Dispatchable Unit Identifier
REGIONID	VARCHAR2(10)		Region Identifier
TLF	NUMBER(7,5)		Transmission Loss Factor
EBP	NUMBER(15,5)		Eligible Bid Price
RRP	NUMBER(15,5)		Regional Reference Price
MVARAPRICE	NUMBER(15,5)		Availability price per MVAr of RP absorption capability
MVAREPRICE	NUMBER(15,5)		Enabling Price
MVARGPRICE	NUMBER(15,5)		Availability price per MVAr of RP generation capability
CCPRICE	NUMBER(15,5)		Compensation Cap
SYNCCOMPENSATION	NUMBER(1,0)		Sync Compensation Flag

MTA	NUMBER(15,5)		Reactive Power Absorption Capability (MVAr)
MTG	NUMBER(15,5)		Reactive Power Generation Capability (MVAr)
BLOCKSIZE	NUMBER(4,0)		Block size of unit
AVAFLAG	NUMBER(1,0)		Availability Flag
CLEAREDMW	NUMBER(15,5)		Cleared MW of unit
UNCONSTRAINEDMW	NUMBER(15,5)		Unconstrained MW of unit
AVAILABILITYPAYMENT	NUMBER(15,5)		Availability Payment
ENABLINGPAYMENT	NUMBER(15,5)		Enabling Payment
CCPAYMENT	NUMBER(15,5)		Compensation Payment
CONTRACTVERSIONNO	NUMBER(3,0)		AS Contract Version No.
OFFERDATE	DATE		Re-offer offer date
OFFERVERSIONNO	NUMBER(3,0)		Re-Offer Version No.
LASTCHANGED	DATE		Last date and time record changed
AVAILABILITYPAYMENT_REBATE	NUMBER(18,8)		The rebate amount if MegaVar (MVAr) is below the threshold.

13 Package: STPASA_SOLUTION

Name STPASA_SOLUTION

Comment Results from a published Short Term PASA Run

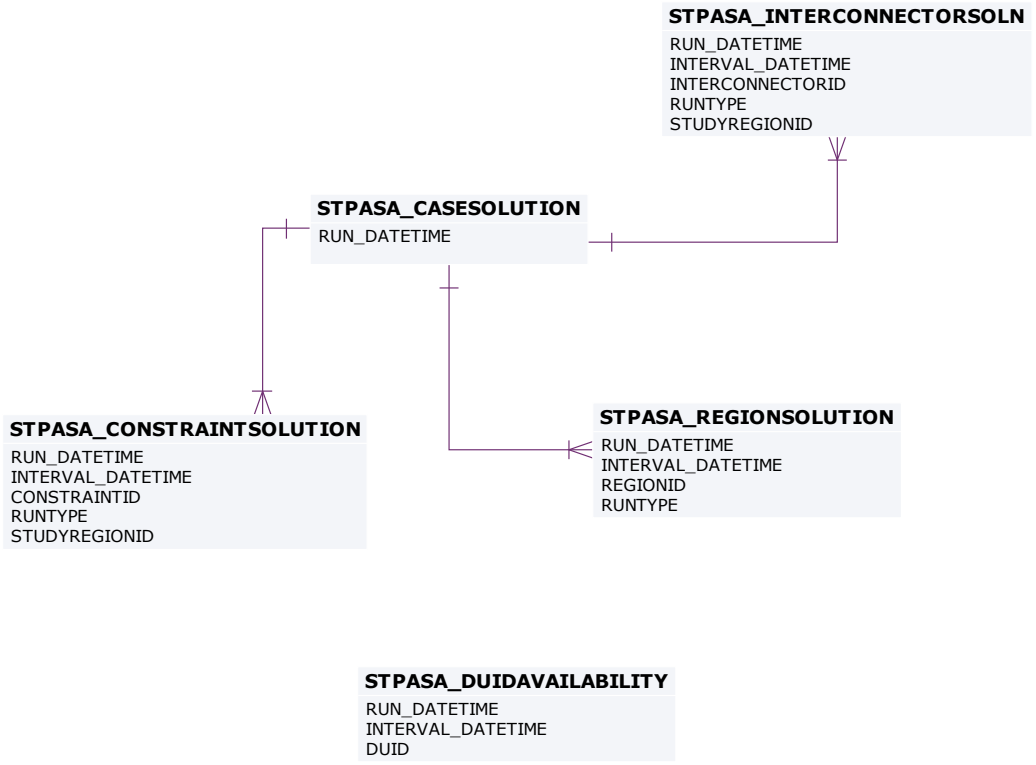
13.1 List of tables

Name	Comment	Visibility
STPASA_DUIDAVAILABILITY	This report delivers available capacity, PASA availability and given recall period for all scheduled resources. Note that for an MNSP, DUID = LINKID in the MNSP_INTERCONNECTOR table	Public
STPASA_REGIONSOLUTION	STPASA_REGIONSOLUTION shows the results of the regional capacity, maximum surplus reserve and maximum spare capacity evaluations for each period of the study.	Public

13.2 Diagram: Entities: ST PASA Solution

13.2.1 Card of diagram Entities: ST PASA Solution

Name	Entities: ST PASA Solution
Code	ENTITIES__ST_PASA_SOLUTION
Comment	



13.3 Table: STPASA_DUIDAVAILABILITY

Name	STPASA_DUIDAVAILABILITY
Comment	This report delivers available capacity, PASA availability and given recall period for all scheduled resources. Note that for an MNSP, DUID = LINKID in the MNSP_INTERCONNECTOR table

13.3.1 Notes

Name	Comment	Value
Visibility		Public

13.3.2 Primary Key Columns

Name

RUN_DATETIME

INTERVAL_DATETIME

DUID

13.3.3 Content

Name	Data Type	Mandatory	Comment
RUN_DATETIME	DATE	X	Nominal start time of the run
INTERVAL_DATETIME	DATE	X	Half hour ended interval
DUID	VARCHAR2(20)	X	NEM Dispatchable Unit Identifier
GENERATION_MAX_AVAILABILITY	NUMBER(12,6)		Available Capacity for a scheduled generating unit, semi-scheduled generating unit, BDU (Gen side), WDR or MNSP.

GENERATION_PASA_AVAILABILITY	NUMBER(12,0)		PASA Availability for a scheduled generating unit, BDU (Gen side), WDR or MNSP. Null for a semi-scheduled generating unit.
GENERATION_RECALL_PERIOD	NUMBER(8,3)		Recall Period associated with the PASA Availability for a scheduled generating unit, BDU (Gen side), WDR or MNSP. Null for a semi-scheduled generating unit.
LOAD_MAX_AVAILABILITY	NUMBER(12,6)		Available Capacity for a scheduled load or BDU(Load side).
LOAD_PASA_AVAILABILITY	NUMBER(12,0)		PASA Availability for a scheduled load or BDU(Load side).
LOAD_RECALL_PERIOD	NUMBER(8,3)		Recall Period associated with the PASA Availability for a scheduled load or BDU(Load side).
LASTCHANGED	DATE		The Last changed Date time of the record

13.4 Table: STPASA_REGIONSOLUTION

Name	STPASA_REGIONSOLUTION
Comment	STPASA_REGIONSOLUTION shows the results of the regional capacity, maximum surplus reserve and maximum spare capacity evaluations for each period of the study.

13.4.1 Description

STPASA_REGIONSOLUTION is public so is available to all participants.

Source

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

Volume

Rows per day: 480

Mb per month: 8

13.4.2 Notes

Name	Comment	Value
Visibility		Public

13.4.3 Primary Key Columns

Name
RUN_DATETIME
RUNTYPE
INTERVAL_DATETIME
REGIONID

13.4.4 Index Columns

Name
LASTCHANGED

13.4.5 Content

Name	Data Type	Mandatory	Comment
RUN_DATETIME	DATE	X	Unique Timestamp Identifier for this study
INTERVAL_DATETIME	DATE	X	The unique identifier for the interval within this study
REGIONID	VARCHAR2(10)	X	Region Identifier
DEMAND10	NUMBER(12,2)		Input value for 10% probability demand
DEMAND50	NUMBER(12,2)		Input value for 50% probability demand
DEMAND90	NUMBER(12,2)		Input value for 90% probability demand
RESERVEREQ	NUMBER(12,2)		Input reserve requirement
CAPACITYREQ	NUMBER(12,2)		Demand + Reserve Requirement
ENERGYREQDEMAND50	NUMBER(12,2)		Sum of: (Region Period Demand - given Demand50)/Period (sum by trading day, entered in first period of trading day, GWh)
UNCONSTRAINEDCAPACITY	NUMBER(12,0)		In a Region, capacity from generation/Load with no Daily Energy Constraint, subject to network security constraints
CONSTRAINEDCAPACITY	NUMBER(12,0)		In a Region, capacity from generation/Load with non-zero Daily Energy Constraint, subject to network security constraints

NETINTERCHANGEUNDERSCARCITY	NUMBER(12,2)		Net export in MW out of this region in the capacity adequacy evaluation. Export if > 0, Import if < 0.
SURPLUSCAPACITY	NUMBER(12,2)		Regional surplus capacity MW, +/- values indicate surplus/deficit capacity respectively
SURPLUSRESERVE	NUMBER(12,2)		Regional reserve surplus. +/- values indicate surplus/deficit reserve respectively
RESERVECONDITION	NUMBER(1,0)		The regional reserve condition: 0 Adequate, 1 LRC
MAXSURPLUSRESERVE	NUMBER(12,2)		The Maximum Surplus Reserve evaluated for this region in this period. Calculated for each region in turn.
MAXSPARECAPACITY	NUMBER(12,2)		The Maximum Spare Capacity evaluated for this region in this period. Calculated for each region in turn.
LORCONDITION	NUMBER(1,0)		The LOR Condition determined from the Maximum Spare Capacity value: 0 - no condition, 1 - LOR1 condition, 2 - LOR2 condition, 3 - LOR3 condition
AGGREGATECAPACITYAVAILABLE	NUMBER(12,2)		Sum of MAXAVAIL quantities offered by all Scheduled units and Availability of all semi-scheduled units limited by MAXAVAIL in a given Region for a given PERIODID
AGGREGATESCHEDULEDLOAD	NUMBER(12,2)		Sum of MAXAVAIL quantities bid by of all Scheduled Loads in a given Region for a given

			PERIODID.
LASTCHANGED	DATE		Last changed date of this record
AGGREGATEPASAAVAILABILITY	NUMBER(12,0)		Sum of PASAAVAILABILITY for all scheduled generating units and scheduled bidirectional units (Gen side) with a Recall_Period of null or <= 24 hours plus the sum of Unconstrained Intermittent Generation Forecasts (UIGF) for all semi-scheduled generating units. For the RELIABILITY_LRC and OUTAGE_LRC runs, UIGF is the POE90 forecast. For the LOR Run, UIGF is the POE50 forecast. Note that the RELIABILITY_LRC and OUTAGE_LRC Run Types are discontinued from 31 July 2025.
RUNTYPE	VARCHAR2(20)	X	Type of run. Values are RELIABILITY_LRC, OUTAGE_LRC and LOR. Note that the STPASA RELIABILITY_LRC and OUTAGE_LRC Run Types are discontinued from 31 July 2025, with only the LOR Run Type reported.
ENERGYREQDEMAND10	NUMBER(12,2)		Energy (GWh) required for this energy block based on the 10% probability of exceedance demand. Listed in the first interval of the energy block
CALCULATEDLOR1LEVEL	NUMBER(16,6)		Region Reserve Level for LOR1 used. Can be static value or calculated value if an interconnector is a credible contingency
CALCULATEDLOR2LEVEL	NUMBER(16,6)		Region Reserve Level for LOR2

			used. Can be static value or calculated value if an interconnector is a credible contingency
MSRNETINTERCHANGEUNDERSCARCITY	NUMBER(12,2)		Net interconnector flow from the region for this interval from the MSR assessment
LORNETINTERCHANGEUNDERSCARCITY	NUMBER(12,2)		Net interconnector flow from the region for this interval from the LOR assessment
TOTALINTERMITTENTGENERATION	NUMBER(15,5)		Allowance made for non-scheduled generation in the demand forecast (MW).
DEMAND_AND_NONSCHEDGEN	NUMBER(15,5)		Sum of Cleared Scheduled generation, imported generation (at the region boundary) and allowances made for non-scheduled generation (MW).
UIGF	NUMBER(12,2)		Regional aggregated Unconstrained Intermittent Generation Forecast of Semi-scheduled generation (MW).
SEMISCHEDULEDCAPACITY	NUMBER(12,2)		Constrained generation forecast for semi-scheduled units for the region. For RELIABILITY_LRC run semi-scheduled generation is constrained only by System Normal constraints. For OUTAGE_LRC run and LOR run semi-scheduled generation is constrained by both System Normal and Outage constraints. All three run types (RELIABILITY_LRC, OUTAGE_LRC, LOR) incorporate MAXAVAIL limits.

LOR_SEMISCHEDULEDCAPACITY	NUMBER(12,2)		Constrained generation forecast for semi-scheduled units for the region for the LOR run type. Semi-scheduled generation is constrained by both System Normal and Outage constraints, and incorporate MAXAVAIL limits.
LCR	NUMBER(16,6)		Largest Credible Risk. MW value for highest credible contingency
LCR2	NUMBER(16,6)		Two Largest Creditable Risks. MW value for highest two credible contingencies.
FUM	NUMBER(16,6)		Forecasting Uncertainty Measure. MW value of reserve calculated as defined in the Reserve Level Declaration Guidelines
SS_SOLAR_UIGF	Number(12,2)		Unconstrained Intermittent Generation Forecast for solar for the region. For RELIABILITY_LRC and OUTAGE_LRC run this is the POE90 forecast (determined by LRCUIGFOption in CaseSolution). For LOR run this is the POE50 forecast
SS_WIND_UIGF	Number (12,2)		Unconstrained Intermittent Generation Forecast for wind for the region. For RELIABILITY_LRC and OUTAGE_LRC run this is the POE90 forecast (determined by LRCUIGFOption in CaseSolution). For LOR run this is the POE50 forecast
SS_SOLAR_CAPACITY	Number (12,2)		Constrained generation forecast for solar for the region. For RELIABILITY_LRC run solar

			generation is constrained only by System Normal constraints. For OUTAGE_LRC run and LOR run solar generation is constrained by both System Normal and Outage constraints. All three run types (RELIABILITY_LRC, OUTAGE_LRC, LOR) incorporate MAXAVAIL limits.
SS_WIND_CAPACITY	Number (12,2)		Constrained generation forecast for wind for the region. For RELIABILITY_LRC run wind generation is constrained only by System Normal constraints. For OUTAGE_LRC run and LOR run wind generation is constrained by both System Normal and Outage constraints. All three run types (RELIABILITY_LRC, OUTAGE_LRC, LOR) incorporate MAXAVAIL limits.
SS_SOLAR_CLEARED	Number (12,2)		Constrained generation forecast for solar for the region. For RELIABILITY_LRC run solar generation is constrained only by System Normal constraints. For OUTAGE_LRC run and LOR run solar generation is constrained by both System Normal and Outage constraints. All three run types (RELIABILITY_LRC, OUTAGE_LRC, LOR) incorporate MAXAVAIL limits.
SS_WIND_CLEARED	Number (12,2)		Constrained generation forecast for wind for the region. For RELIABILITY_LRC run wind generation is constrained only by System Normal constraints. For OUTAGE_LRC run and LOR run wind generation is constrained by both System Normal and Outage

			constraints. All three run types (RELIABILITY_LRC, OUTAGE_LRC, LOR) incorporate MAXAVAIL limits.
WDR_AVAILABLE	NUMBER(12,2)		Regional aggregated Wholesale Demand Response (WDR) availability in MW.
WDR_PASAAVAILABLE	NUMBER(12,2)		Regional aggregated Wholesale Demand Response (WDR) PASA availability in MW.
WDR_CAPACITY	NUMBER(12,2)		Regional aggregated Wholesale Demand Response (WDR) capacity in MW.