EMMS - Technical Specification - Data Model v5.6 - November 2025

1.01 July 2025

Pre-production: Tuesday 14 October 2025

Production: Wednesday 19 November 2025

Important notice

Purpose & audience

This document describes the technical changes required to participant's systems for the EMMS - Technical Specification - Data Model v5.6 - November 2025 (Release). The Australian Energy Market Operator (AEMO) provides this information as a service targeting business analysts and IT staff in participant organisations. It provides guidance about the changes to their market systems under the National Electricity Rules (Rules), as at the date of publication.

How to use this document

- If you have questions about the business aspects of these changes, please see Consultations on AEMO's website.
- The references listed throughout this document are primary resources and take precedence over this document.
- Unless otherwise stated, you can find resources mentioned in this guide on AEMO's website.
- **Text in this format** is a link to related information. Some links require access to MarketNet.
- **Text in this format**, indicates a reference to a document on AEMO's website.
- **Text in this format** is an action to perform in the Markets Portal.
- This document is written in plain language for easy reading. Where there is a discrepancy between the Rules and information or a term in this document, the Rules take precedence.
- Glossary Terms are capitalised and have the meanings listed against them in the Glossary.
- Rules Terms have the meaning listed against them in the **National Electricity Rules** (Rules).

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Distribution

Available to the public.

Document Identification

Prepared by: AEMO Digital

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Version History

1.01 Initial creation

Documents made obsolete

The release of this document changes only the version of EMMS - Technical Specification - Data Model v5.6 - November 2025.

Support Hub

To contact AEMO's Support Hub use Contact Us on AEMO's website or for urgent matters phone: 1300 AEMO 00 (1300 236 600.

Contents

1 Introduction

1.1 Audience

AEMO provides this information as a service targeting business analysts and IT staff in Registered Participant companies.

1.2 Objective

The EMMS - Technical Specification - Data Model v5.6 - November 2025 (Release) describes the projects planned by AEMO from a participant perspective and includes any system related changes for participants.

1.3 Status

Version	Status
1.01	In progress. The design is not ready for participants' builds Improving Security Frameworks (ISF) – Design complete estimation – 80% Operational Forecasting – Design complete estimation – 80% ST PASA Procedure and Recall Period – Additional updates – 90% Frequency Performance Payments (FPP) Settlements – Additional updates – 90%
1.00	In progress. The design is not ready for participants' builds Improving Security Frameworks (ISF) – Design complete estimation – 10% Operational Forecasting – Design complete estimation – 10%
0.01	 **Initial Draft for review. The design is not ready for participants' builds** Presents the EMMS - Technical Specification - Data Model v5.6 - November 2025 evolving design. Please send feedback to **Contact Us**. In the **Details of your enquiry** section, mention the EAS Knowledge Management team as the Resolver group.

1.4 Release dates

Scheduled for implementation in:

- Pre-production: Tuesday 14 October 2025
- Production: Wednesday 19 November 2025

1.5 Rule and procedure changes

The following rules and procedures take precedence over technical specifications and guides.

For details, see the **Rule and procedure changes** section in **EMMS – Technical Specification – December 2025**

1.6 Related technical specifications

Title	Project
EMMS – Technical Specification – 31 July 2025	ST PASA Procedure and Recall Period
EMMS – Data Model 5.5 – April 2025	Frequency Performance Payments (FPP) Settlements
EMMS – Technical Specification – December 2025	Improving Security Frameworks (ISF)

1.7 Related documents

Once published, these resources take precedence over this technical specification

These guides and resources are updated according to this technical specification and published by the dates below.

Title	Description	Published
Data Interchange Online Help	Help for participants using Data Interchange and the Data Model	See Release Dates in Timeline
Data Model Reports	Explains the packages, tables and reports in the Electricity and Gas Data Models	
Release Documents	Release Notes	

1.8 Approval to change

AEMO request approval to proceed from all participant change controllers by close of business Monday, 7 July 2025.

1.9 Market systems user group meetings

The Market Systems User Group (MSUG) is an industry user group established to discuss NEM wholesale and retail IT systems releases. Its purpose is to facilitate the continuing improvement of AEMO's IT systems by seeking feedback and collaboration from participants.

MSUG meetings are open to all interested parties, with invitations sent to all included on the distribution list. If you have a technical question for a project and want to attend the MSUG ask your company's support team to include your email address in their **AEMO Help Desk Bulletin (CRM)** distribution list.

1.10 Version numbers

AEMO releases new versions of this document as the technical requirements are streamlined.

Incremental version numbers such as 1.01, 2.01 and so on mean there is a minor change to the technical specification.

Major version numbers such as 1.00, 2.00 means there are substantial changes to the technical specification. Participants must carefully review these changes, detailed below.

1.11 Changes in this version

The changes in this version are:

- Updates to **Participant Impact**
- Updates to **Proposed Timeline**
- Updates to Data Model packages

Table	Column	Reason
BIDPEROFFER_D	RECALL_PERIOD	Change missed in Data Model 5.5 and included in Data Model 5.6.

Table	Column	Reason
INTERMITTENT_GEN_FCST_RUN	FORECAST_RUN_DATETIME DUID PROVIDERID FORECAST_PRIORITY OFFERDATETIME PROVIDER_TIMESTAMP REMARKS MODEL_USED SUPPRESSED_PROVIDER TRANSACTION_ID LASTCHANGED	Column names updated to avoid conflicts with common terms used in Data model scripts.
INTERMITTENT_GEN_FCST_P5_RUN	FORECAST_RUN_DATETIME DUID PROVIDERID FORECAST_PRIORITY OFFERDATETIME PROVIDER_TIMESTAMP REMARKS MODEL_USED SUPPRESSED_PROVIDER TRANSACTION_ID LASTCHANGED	Column names updated to avoid conflicts with common terms used in Data model scripts.
ROOFTOP_PV_FCST_RUN	FORECAST_RUN_DATETIME AREAID PROVIDERID FORECAST_PRIORITY OFFERDATETIME PROVIDER_TIMESTAMP REMARKS MODEL_USED SUPPRESSED_PROVIDER INSTALLED_CAPACITY LASTCHANGED	Column names updated to avoid conflicts with common terms used in Data model scripts.

Table	Column	Reason
ROOFTOP_PV_FCST_P5_RUN	FORECAST_RUN_DATETIME AREAID PROVIDERID FORECAST_PRIORITY OFFERDATETIME PROVIDER_TIMESTAMP REMARKS MODEL_USED SUPPRESSED_PROVIDER INSTALLED_CAPACITY LASTCHANGED	Column names updated to avoid conflicts with common terms used in Data model scripts.
ROOFTOP_PV_ACTUAL_RUN	PREDICTION_RUN_DATETIME INTERVAL_DURATION AREAID ESTIMATE_TYPE PROVIDERID PREDICTION_PRIORITY OFFERDATETIME PROVIDER_TIMESTAMP REMARKS MODEL_USED SUPPRESSED_PROVIDER INSTALLED_CAPACITY LASTCHANGED	Column names updated to avoid conflicts with common terms used in Data model scripts.
SET_NMAS_MANUAL_PAYMENT	SETTLEMENTDATE VERSIONNO PARTICIPANTID CONTRACTID DUID SERVICETYPE PAYMENTYPE PERIODID REGIONID PAYMENTAMOUNT LASTCHANGED	Column names updated to avoid conflicts with common terms used in Data model scripts.

Table	Column	Reason
SET_FCAS_REG_RESIDAMT	ASOE_MWH RESIDUAL_MWH USED_ASOE_AMOUNT USED_RESIDUAL_AMOUNT UNUSED_ASOE_AMOUNT UNUSED_RESIDUAL_AMOUNT	Introduced in Data Model 5.5, comment only changes in Data Model 5.6.
SET_FCAS_REG_DEF_RESIDAMT	RESIDUAL_MWH UNUSED_ASOE_AMOUNT UNUSED_RESIDUAL_AMOUNT	Introduced in Data Model 5.5, comment only changes in Data Model 5.6.
BILLING_NMAS_MANUAL_PAYMENT	CONTRACTYEAR WEEKNO BILLRUNNO PARTICIPANTID CONTRACTID DUID SERVICETYPE PAYMENTYPE REGIONID PAYMENTAMOUNT LASTCHANGED	New table added in Data Model 5.6.

Table	Column	Reason
BILLING_NMAS_MANUAL_RECOVERY	CONTRACTYEAR WEEKNO BILLRUNNO PARTICIPANTID CONTRACTID SERVICETYPE PAYMENTYPE REGIONID PAYMENTAMOUNT RECOVERYSTARTDATETIME RECOVERYENDDATETIME RECOVERYAMOUNT_ACE RECOVERYAMOUNT_ASOE PARTICIPANTACE_MWH PARTICIPANTASOE_MWH REGIONACE_MWH REGIONASOE_MWH LASTCHANGED	New table added in Data Model 5.6.
AREA	AREAID EFFECTIVEDATE VERSIONNO AREA_NAME AREA_DESCRIPTION LASTCHANGED	Column names updated to avoid conflicts with common terms used in Data model scripts.

Table	Column	Reason
SSM_INSTRUCTION	INSTRUCTION_ID VERSION_DATETIME INITIAL_INSTRUCTION_ID DUID_PARTICIPANTID CONTRACT_ID TNSP_PARTICIPANTID DUID UNIT_COUNT EQUIPMENT_TYPE SERVICE_TYPE MIN_DISPATCH_MW START_INTERVAL_DATETIME END_INTERVAL_DATETIME LASTCHANGED	New table added in Data Model 5.6.
SSM_SCHEDULE	INSTRUCTION_ID CONTRACT_ID DUID_PARTICIPANTID TNSP_PARTICIPANTID DUID UNIT_COUNT EQUIPMENT_TYPE SERVICE_TYPE MIN_DISPATCH_MW START_INTERVAL_DATETIME END_INTERVAL_DATETIME LASTCHANGED	New table added in Data Model 5.6.
SSM_SCHEDULED_AVAILABILITY	CONTRACT_ID DUID AVAILABLE_START_INTERVAL AVAILABLE_END_INTERVAL TNSP_PARTICIPANTID LASTCHANGED	New table added in Data Model 5.6.

Table	Column	Reason
SSM_ENABLEMENT_COSTS	INSTRUCTION_ID ENABLEMENT_REASON ESTIMATED_COSTS LASTCHANGED	New table added in Data Model 5.6.
PDPASA_DUIDAVAILABILITY	RUN_DATETIME LASTCHANGED	Introduced in Data Model 5.5, comment only changes in Data Model 5.6.
PDPASA_REGIONSOLUTION	RUN_DATETIME RESERVEREQ CAPACITYREQ ENERGYREQDEMAND50 UNCONSTRAINEDCAPACITY CONSTRAINEDCAPACITY NETINTERCHANGEUNDERSCARCITY SURPLUSCAPACITY SURPLUSRESERVE RESERVECONDITION MAXSURPLUSRESERVE MAXSPARECAPACITY LASTCHANGED AGGREGATEPASAAVAILABILITY RUNTYPE MSRNETINTERCHANGEUNDERSCARCITY SEMISCHEDULEDCAPACITY LCR2 SS_SOLAR_UIGF SS_WIND_UIGF SS_SOLAR_CAPACITY SS_WIND_CAPACITY SS_SOLAR_CLEARED SS_WIND_CLEARED	Introduced in Data Model 5.5, comment only changes in Data Model 5.6.
STPASA_DUIDAVAILABILITY	RUN_DATETIME LASTCHANGED	Introduced in Data Model 5.5, comment only changes in Data Model 5.6.

Table	Column	Reason
STPASA_REGIONSOLUTION	RUN_DATETIME INTERVAL_DATETIME DEMAND10 DEMAND50 DEMAND90 RESERVEREQ CAPACITYREQ ENERGYREQDEMAND50 UNCONSTRAINEDCAPACITY CONSTRAINEDCAPACITY NETINTERCHANGEUNDERSCARCITY SURPLUSCAPACITY SURPLUSRESERVE RESERVECONDITION MAXSURPLUSRESERVE MAXSPARECAPACITY LASTCHANGED AGGREGATEPASAAVAILABILITY MSRNETINTERCHANGEUNDERSCARCITY SEMISCHEDULEDCAPACITY LOR_SEMISCHEDULEDCAPACITY LCR2 SS_SOLAR_CLEARED SS_WIND_CLEARED	Introduced in Data Model 5.5, comment only changes in Data Model 5.6.

2 Proposed Timeline

The dates for the Market System User Group Meetings (MSUG) are tentative. We will provide an invitation one week prior to the meeting.

Milestone	Date	Description
Approval required	7 July 2025	Final date for participant approval of this Release
Revised Technical Specification	August 2025	AEMO releases new versions of this document as the technical requirements are streamlined. During the project this document is the source of truth From the production release, the technical specification becomes final and the **related documents** become the source of truth **Technical Specification Portal**
Related Documents publication	Tuesday 14 October 2025	Release of guides and resources mentioned in Related on page 2
Next MSUG meeting	27 August 2025	Market Systems User Group Meeting (MSUG) to review the technical specification and ask AEMO technical SMEs questions This date is tentative. The Knowledge Management Team provides the invitation prior to the meeting
Pre-production Data Model auto subscription	14 October 2025 auto-subscription for new files	For any **existing** files with modified or new tables, if participants are subscribed, AEMO moves them to the Legacy version
Pre-production Data Model release	Tuesday 14 October 2025	Participant Data Model scripts released
Pre-production refresh	18 August 2025 – 5 September 2025 See **pre-production refresh**	Refresh of the pre-production system with data refreshed from the production system. An outage of up to five days can occur to the pre-production environment during this period. Participant access is not restricted, however, AEMO do not guarantee the pre-production data content or system availability. During the refresh, access to other AEMO systems such as AWEFS, EMMS, OPDMS, and STTM may be intermittently affected

Milestone	Date	Description
Pre-production implementation	Tuesday 14 October 2025	AEMO implements components of the Release to pre-production for participant testing AEMO has full access to the system during this period Participant access is not restricted; however, the data content or system availability is not guaranteed
Pre-production available	Tuesday 14 October 2025	Testing period begins for participants
Participant Testing	14 October 2025 - 19 November 2025	Unstructured participant testing in the pre-production environment
Production implementation	Wednesday 19 November 2025	AEMO implements the release to production
Production Data Model auto subscription	19 November 2025 auto-subscription for new files	For any **existing** files with modified or new tables, if participants are subscribed, AEMO moves them to the Legacy version
Production Data Model release	Wednesday 19 November 2025	Participant Data Model scripts released

3 Participant Impact

Participants must upgrade to the latest version of Data Model 5.6 to receive the new and updated Data Model information in their Data Interchange environments.

3.1 Electricity data model v5.6

Participants must upgrade to **Electricity Data Model v5.6** to receive the new Reports.

3.2 Data population dates

3.2.1 ISF

Pre-production: Tuesday 28 October 2025

Production: Tuesday 2 December 2025

3.2.2 Operational Forecasting

Pre-production: TBC

Production: TBC

3.2.3 ST PASA Procedure and Recall Period

The ST PASA Procedure and Recall Period project is in production 31 July 2025. The changes in the Data Model 5.6 are comment only changes.

Pre-production: Tuesday 20 May 2025

Production: Tuesday 31 July 2025

3.2.4 FPP Settlements

The FPP Settlements project went in production 8 June 2025. The changes in the Data Model 5.6 are comment only changes.

Pre-production: Sunday 2 February 2025

Production: Sunday 8 June 2025

3.3 Data subscription

3.3.1 Auto-subscription

Existing participants are auto subscribed to any new files when they upgrade to the latest data model version. New file names to be advised.

3.3.2 Legacy files

On the **Release Dates**, AEMO moves participants subscribed to existing files to the Legacy version. After you have upgraded to v5.6, subscribe to the current files in **Data Subscription**. For help, see **Subscribe to Files**.

4 Electricity Data Model v5.6

Participant systems incorrectly configured and not compliant with the Baseline Assumptions in the Data Interchange Framework and Glossary may suffer data loss.

This Release contains an updated version of the Electricity/Gas Data Model 5.6. This section describes the affected packages, tables, files, reports, and interfaces.

4.1 Data model changes summary

4.2 Package: BIDS

Energy and Market Based FCAS Offers

4.2.1 Modified table: BIDPEROFFER_D

Comment	BIDPEROFFER_D shows the public summary of the energy and FCAS offers applicable in the Dispatch for the intervals identified. BIDPEROFFER_D is the child to BIDDAYOFFER_D.
Visibility	Public
Data volume	Large
Trigger	Updates daily shortly after 4am.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVREPORTS
Primary key (in order)	BIDTYPE, DIRECTION, DUID, INTERVAL_DATETIME, SETTLEMENTDATE
Project	ST PASA Procedure and Recall Period

New columns

Field name	Data type	Primary Key	Comment
RECALL_PERIOD	NUMBER(8,3)	No	The advance notice (in hours) that a Scheduled Resource requires to achieve the PASA Availability MW for this trading interval

4.3 Package: DEMAND_FORECASTS

Regional Demand Forecasts, Intermittent Generator forecasts and Rooftop PV forecasts.

4.3.1 New table: INTERMITTENT_GEN_FCST_RUN

Comment	**Contains forecast runs for intermittent wind and solar units, with a 30-minute resolution over the week-ahead PD/STPASA time frame. This is the parent table to the child table INTERMITTENT_GEN_FCST_PRED, which contains the corresponding forecast predictions over the full horizon.**
Visibility	Private, Public Next-Day
Data volume	Small
Trigger	Every 30 minutes when a new intermittent generator forecast is available, covering the 8 days ahead horizon with 30-minute resolution.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	FORECAST_RUN_DATETIME, DUID, PROVIDERID, FORECAST_PRIORITY, OFFERDATETIME
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
FORECAST_RUN_DATETIME	DATE	YES	Datetime (interval ending) when this forecast run is valid. It aligns with run_datetime in downstream processes, unless a forecast run is missed, in this case the previous run is used
DUID	VARCHAR2(10)	YES	Dispatchable unit identifier for which this forecast applies
PROVIDERID	VARCHAR2(20)	YES	Forecast provider identifier
FORECAST_PRIORITY	NUMBER(10,0)	YES	Priority of forecast run, higher number is used in preference to lower number for the same provider
OFFERDATETIME	DATE	YES	Datetime when this forecast submission was loaded
PROVIDER_TIMESTAMP	DATE	NO	Datetime when the provider created the forecast
REMARKS	VARCHAR2(300)	NO	Comments relating to the forecast run. This column is not made available to the public
MODEL_USED	VARCHAR2(30)	NO	Metadata describing the model used to produce the forecast run. This column is not made available to the public
SUPPRESSED_PROVIDER	NUMBER(1,0)	NO	Flag indicating if the forecast run was suppressed by the provider when submitted. Suppressed forecasts are not used by downstream systems. Suppressed = 1, Unsuppressed = 0
TRANSACTION_ID	VARCHAR2(100)	NO	Transaction identifier for receiving the forecast run
LASTCHANGED	DATE	NO	Datetime when the forecast run was written into AEMO's database

4.3.2 New table: INTERMITTENT_GEN_FCST_PRED

Comment	**Contains forecast predictions for intermittent wind and solar units, with a 30-minute resolution over the week-ahead PD/STPASA time frame. This is the child table of the parent table INTERMITTENT_GEN_FCST_RUN, which contains the corresponding forecast runs.**
Visibility	Private, Public Next-Day
Data volume	Large
Trigger	Every 30 minutes when a new intermittent generator forecast is available, covering the 8 days ahead horizon with 30-minute resolution.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	FORECAST_RUN_DATETIME, DUID, PROVIDERID, FORECAST_PRIORITY, OFFERDATETIME, INTERVAL_DATETIME, FORECAST_TYPE
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
FORECAST_RUN_DATETIME	DATE	YES	Datetime (interval ending) when this forecast run is valid. It aligns with run_datetime in downstream processes, unless a forecast run is missed, in this case the previous run is used
DUID	VARCHAR2(10)	YES	Dispatchable unit identifier for which this forecast applies
PROVIDERID	VARCHAR2(20)	YES	Forecast provider identifier
FORECAST_PRIORITY	NUMBER(10,0)	YES	Priority of forecast run, higher number is used in preference to lower number for the same provider

Field name	Data type	Primary key	Comment
OFFERDATETIME	DATE	YES	Datetime when this forecast submission was loaded
INTERVAL_DATETIME	DATE	YES	Datetime (interval-ending) for the period that this forecast applies to, within the current forecast_run_datetime
FORECAST_TYPE	VARCHAR2(20)	YES	Type of forecast, for example, POE_10, POE_50, POE_90, MEAN and so on
FORECAST_VALUE	NUMBER(18,8)	NO	Forecast value in MW

4.3.3 New table: INTERMITTENT_GEN_FCST_P5_RUN

Comment	**Contains forecast runs for intermittent wind and solar units, with a 5-minute resolution over the hour-ahead P5MIN time frame. This is the parent table to the child table INTERMITTENT_GEN_FCST_P5_PRED, which contains the corresponding forecast predictions over the full horizon.**
Visibility	Private, Public Next-Day
Data volume	Small
Trigger	Every 5 minutes when a new intermittent generator forecast is available, covering the 2 hour ahead horizon with 5-minute resolution.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	FORECAST_RUN_DATETIME, DUID, PROVIDERID, FORECAST_PRIORITY, OFFERDATETIME
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
FORECAST_RUN_DATETIME	DATE	YES	Datetime (interval ending) when this forecast run is valid. It aligns with run_datetime in downstream processes, unless a forecast run is missed, in this case the previous run is used
DUID	VARCHAR2(10)	YES	Dispatchable unit identifier for which this forecast applies
PROVIDERID	VARCHAR2(20)	YES	Forecast provider identifier
FORECAST_PRIORITY	NUMBER(10,0)	YES	Priority of forecast run, higher number is used in preference to lower number for the same provider
OFFERDATETIME	DATE	YES	Datetime when this forecast submission was loaded
PROVIDER_TIMESTAMP	DATE	NO	Datetime when the provider created the forecast
REMARKS	VARCHAR2(300)	NO	Comments relating to the forecast run. This column is not made available to the public
MODEL_USED	VARCHAR2(30)	NO	Metadata describing the model used to produce the forecast run. This column is not made available to the public
SUPPRESSED_PROVIDER	NUMBER(1,0)	NO	Flag indicating if the forecast run was suppressed by the provider when submitted. Suppressed forecasts are not used by downstream systems. Suppressed = 1, Unsuppressed = 0
TRANSACTION_ID	VARCHAR2(100)	NO	Transaction identifier for receiving the forecast run
LASTCHANGED	DATE	NO	Datetime when the forecast run was written into AEMO's database

4.3.4 New table: INTERMITTENT_GEN_FCST_P5_PRED

Comment	**Contains forecast predictions for intermittent wind and solar units, with a 5-minute resolution over the hour-ahead P5MIN time frame. This is the child table of the parent table INTERMITTENT_GEN_FCST_P5_RUN, which contains the corresponding forecast runs.**
Visibility	Private, Public Next-Day
Data volume	Medium
Trigger	Every 5 minutes when a new intermittent generator forecast is available, covering the 2 hours ahead horizon with 5-minute resolution.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	FORECAST_RUN_DATETIME, DUID, PROVIDERID, FORECAST_PRIORITY, OFFERDATETIME, INTERVAL_DATETIME, FORECAST_TYPE
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
FORECAST_RUN_DATETIME	DATE	YES	Datetime (interval ending) when this forecast run is valid. It aligns with run_datetime in downstream processes, unless a forecast run is missed, in this case the previous run is used
DUID	VARCHAR2(10)	YES	Dispatchable unit identifier for which this forecast applies
PROVIDERID	VARCHAR2(20)	YES	Forecast provider identifier
FORECAST_PRIORITY	NUMBER(10,0)	YES	Priority of forecast run, higher number is used in preference to lower number for the same provider

Field name	Data type	Primary key	Comment
OFFERDATETIME	DATE	YES	Datetime when this forecast submission was loaded
INTERVAL_DATETIME	DATE	YES	Datetime (interval-ending) for the period that this forecast applies to, within the current forecast_run_datetime
FORECAST_TYPE	VARCHAR2(20)	YES	Type of forecast, for example, POE_10, POE_50, POE_90, MEAN and so on
FORECAST_VALUE	NUMBER(18,8)	NO	Forecast value in MW

4.3.5 New table: ROOFTOP_PV_FCST_RUN

Comment	Contains forecast runs for rooftop PV areas, with a 30-minute resolution over the week-ahead PD/STPASA time frame. This is the parent table to the child table ROOFTOP_PV_FCST_PRED, which contains the corresponding forecast predictions over the full horizon.
Visibility	Public
Data volume	Small
Trigger	Every 30 minutes when a new rooftop PV forecast is available, covering the 8 days ahead horizon with 30-minute resolution.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	FORECAST_RUN_DATETIME, AREAID, PROVIDERID, FORECAST_PRIORITY, OFFERDATETIME
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
FORECAST_RUN_DATETIME	DATE	YES	Datetime (interval ending) when this forecast run is valid. It aligns with run_datetime in downstream processes, unless a forecast run is missed, in this case the previous run is used
AREAID	VARCHAR2(10)	YES	Area identifier, aligning with the load forecasting areas.
PROVIDERID	VARCHAR2(20)	YES	Forecast provider identifier, for example, AEMO, PROVIDER_A and so on
FORECAST_PRIORITY	NUMBER(10,0)	YES	Priority of forecast run, higher number is used in preference to lower number for the same provider
OFFERDATETIME	DATE	YES	Datetime when this forecast submission was loaded
PROVIDER_TIMESTAMP	DATE	NO	Datetime when the provider created the forecast
REMARKS	VARCHAR2(300)	NO	Comments relating to the forecast run
MODEL_USED	VARCHAR2(30)	NO	Metadata describing the model used to produce the forecast run
SUPPRESSED_PROVIDER	NUMBER(1,0)	NO	Flag indicating if the forecast run was suppressed by the provider when submitted. Suppressed forecasts are not used by downstream systems. Suppressed = 1, Unsuppressed = 0
INSTALLED_CAPACITY	NUMBER(18,8)	NO	Installed rooftop PV capacity that was used for the forecast run, in MW
LASTCHANGED	DATE	NO	Datetime when the forecast run was written into AEMO's database

4.3.6 New table: ROOFTOP_PV_FCST_PRED

Comment	**Contains forecast predictions for rooftop PV areas, with a 30-minute resolution over the week-ahead PD/STPASA time frame. This is the child table of the parent table ROOFTOP_PV_FCST_RUN, which contains the corresponding forecast runs.**
Visibility	PUBLIC
Data volume	Large
Trigger	Every 30 minutes when a new rooftop PV forecast is available, covering the 8 days ahead horizon with 30-minute resolution.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	FORECAST_RUN_DATETIME, AREAID, PROVIDERID, FORECAST_PRIORITY, OFFERDATETIME, INTERVAL_DATETIME, FORECAST_TYPE
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
FORECAST_RUN_DATETIME	DATE	YES	Datetime (interval ending) when this forecast run is valid. It aligns with run_datetime in downstream processes, unless a forecast run is missed, in this case the previous run is used
AREAID	VARCHAR2(10)	YES	Area identifier, aligning with the load forecasting areas
PROVIDERID	VARCHAR2(20)	YES	Forecast provider identifier, for example, AEMO, PROVIDER_A and so on
FORECAST_PRIORITY	NUMBER(10,0)	YES	Priority of forecast run, higher number is used in preference to lower number for the same provider

Field name	Data type	Primary key	Comment
OFFERDATETIME	DATE	YES	Datetime when this forecast submission was loaded
INTERVAL_DATETIME	DATE	YES	Datetime (interval-ending) for the period that this forecast applies to, within the current forecast_run_datetime
FORECAST_TYPE	VARCHAR2(20)	YES	Type of forecast, for example, POE_10, POE_50, POE_90, MEAN and so on
FORECAST_VALUE	NUMBER(18,8)	NO	Forecast value in MW

4.3.7 New table: ROOFTOP_PV_FCST_P5_RUN

Comment	Contains forecast runs for rooftop PV areas, with a 5-minute resolution over the hour-ahead DS/P5MIN time frame. This is the parent table to the child table ROOFTOP_PV_FCST_P5_PRED, which contains the corresponding forecast predictions over the full horizon.
Visibility	Public
Data volume	Small
Trigger	Every 5 minutes when a new rooftop PV forecast is available, covering the 2 hours ahead horizon with 5-minute resolution.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	FORECAST_RUN_DATETIME, AREAID, PROVIDERID, FORECAST_PRIORITY, OFFERDATETIME
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
FORECAST_RUN_DATETIME	DATE	YES	Datetime (interval ending) when this forecast run is valid. It aligns with run_datetime in downstream processes, unless a forecast run is missed, in this case the previous run is used
AREAID	VARCHAR2(10)	YES	Area identifier, aligning with the load forecasting areas
PROVIDERID	VARCHAR2(20)	YES	Forecast provider identifier, for example, AEMO, PROVIDER_A and so on
FORECAST_PRIORITY	NUMBER(10,0)	YES	Priority of forecast run, higher number is used in preference to lower number for the same provider
OFFERDATETIME	DATE	YES	Datetime when this forecast submission was loaded
PROVIDER_TIMESTAMP	DATE	NO	Datetime when the provider created the forecast
REMARKS	VARCHAR2(300)	NO	Comments relating to the forecast run
MODEL_USED	VARCHAR2(30)	NO	Metadata describing the model used to produce the forecast run
SUPPRESSED_PROVIDER	NUMBER(1,0)	NO	Flag indicating if the forecast run was suppressed by the provider when submitted. Suppressed forecasts are not used by downstream systems. Suppressed = 1, Unsuppressed = 0
INSTALLED_CAPACITY	NUMBER(18,8)	NO	Installed rooftop PV capacity that was used for the forecast run, in MW
LASTCHANGED	DATE	NO	Datetime when the forecast run was written into AEMO's database

4.3.8 New table: ROOFTOP_PV_FCST_P5_PRED

Comment	**Contains forecast predictions for rooftop PV areas, with a 5-minute resolution over the hour-ahead DS/P5MIN time frame. This is the child table of the parent table ROOFTOP_PV_FCST_P5_RUN, which contains the corresponding forecast runs.**
Visibility	PUBLIC
Data volume	Medium
Trigger	Every 5 minutes when a new rooftop PV forecast is available, covering the 2 hours ahead horizon with 5-minute resolution.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	FORECAST_RUN_DATETIME, AREAID, PROVIDERID, FORECAST_PRIORITY, OFFERDATETIME, INTERVAL_DATETIME, FORECAST_TYPE
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
FORECAST_RUN_DATETIME	DATE	YES	Datetime (interval ending) when this forecast run is valid. It aligns with run_datetime in downstream processes, unless a forecast run is missed in which case the previous run is used
AREAID	VARCHAR2(10)	YES	Area identifier, aligning with the load forecasting areas
PROVIDERID	VARCHAR2(20)	YES	Forecast provider identifier, for example, AEMO, PROVIDER_A and so on
FORECAST_PRIORITY	NUMBER(10,0)	YES	Priority of forecast run, higher number is used in preference to lower number for the same provider

Field name	Data type	Primary key	Comment
OFFERDATETIME	DATE	YES	Datetime when this forecast submission was loaded
INTERVAL_DATETIME	DATE	YES	Datetime (interval-ending) for the period that this forecast applies to, within the current forecast_run_datetime
FORECAST_TYPE	VARCHAR2(20)	YES	Type of forecast, for example, POE_10, POE_50, POE_90, MEAN and so on
FORECAST_VALUE	NUMBER(18,8)	NO	Forecast value in MW

4.3.9 New table: ROOFTOP_PV_ACTUAL_RUN

Comment	**Contains prediction runs for rooftop PV area estimated actuals, with a 5-minute and 30-minute resolution for different estimate types. This is the parent table to the child table ROOFTOP_PV_ACTUAL_PRED, which contains the corresponding actual predictions.**
Visibility	Public
Data volume	Small
Trigger	Every 5 or 30 minutes when a new rooftop PV estimated actual is available, covering the most recent 5 or 30-minute interval that is available.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	PREDICTION_RUN_DATETIME, INTERVAL_DURATION, AREAID, ESTIMATE_TYPE, PROVIDERID, PREDICTION_PRIORITY, OFFERDATETIME
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
PREDICTION_RUN_DATETIME	DATE	YES	Datetime (interval ending) from which this prediction run is valid
INTERVAL_DURATION	NUMBER(1,0)	YES	Duration of each interval (in minutes) for this prediction, for example, 5 or 30
AREAID	VARCHAR2(10)	YES	Area identifier, aligning with the load forecasting areas
ESTIMATE_TYPE	VARCHAR2(20)	YES	Type of Rooftop PV estimate, for example, MEASURED, SATELLITE and so on
PROVIDERID	VARCHAR2(20)	YES	Provider identifier, for example, AEMO, PROVIDER_A and so on
PREDICTION_PRIORITY	NUMBER(10,0)	YES	Priority of prediction run, higher number is used in preference to lower number for the same provider
OFFERDATETIME	DATE	YES	Datetime when this prediction submission was loaded
PROVIDER_TIMESTAMP	DATE	NO	Datetime when the provider created the forecast
REMARKS	VARCHAR2(300)	NO	Comments relating to the prediction run
MODEL_USED	VARCHAR2(30)	NO	Metadata describing the model used to produce the prediction run
SUPPRESSED_PROVIDER	NUMBER(1,0)	NO	Flag indicating if the prediction run was suppressed by the provider when submitted. Suppressed predictions are not used by downstream forecasting systems. Suppressed = 1, Unsuppressed = 0
INSTALLED_CAPACITY	NUMBER(18,8)	NO	Installed rooftop PV capacity used for the prediction run, in MW
LASTCHANGED	DATE	NO	Datetime when the prediction run was written into AEMO's database

4.3.10 New table: ROOFTOP_PV_ACTUAL_PRED

Comment	Contains predictions for rooftop PV area estimated actuals, with a 5-minute and 30-minute resolution for different estimate types. This is the child table of the parent table ROOFTOP_PV_ACTUAL_RUN, which contains the corresponding actual prediction runs.
Visibility	PUBLIC
Data volume	Small
Trigger	Every 5 or 30 minutes when a new rooftop PV estimated actual is available, covering the most recent 5 or 30-minute interval that is available.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	PREDICTION_RUN_DATETIME, INTERVAL_DURATION, AREAID, ESTIMATE_TYPE, PROVIDERID, FORECAST_PRIORITY, OFFERDATETIME, INTERVAL_DATETIME
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
PREDICTION_RUN_DATETIME	DATE	YES	Datetime (interval ending) from which this prediction run is valid
INTERVAL_DURATION	NUMBER(1,0)	YES	Duration of each interval (in minutes) for this prediction, for example, 5 or 30
AREAID	VARCHAR2(10)	YES	Area identifier, aligning with the load forecasting areas
ESTIMATE_TYPE	VARCHAR2(20)	YES	Type of Rooftop PV estimate, for example, MEASURED, SATELLITE and so on
PROVIDERID	VARCHAR2(20)	YES	Provider identifier, for example, AEMO, PROVIDER_A and so on

Field name	Data type	Primary key	Comment
PREDICTION_PRIORITY	NUMBER(10,0)	YES	Priority of prediction run, higher number is used in preference to lower number for the same provider
OFFERDATETIME	DATE	YES	Datetime when this prediction submission was loaded
INTERVAL_DATETIME	DATE	YES	Date and Time the forecast applies (dispatch interval ending
PREDICTION_VALUE	NUMBER(18,8)	NO	Prediction value in MW
PREDICTION_QUALITY	NUMBER(2,1)	NO	Prediction quality. Higher number represents better quality

4.4 Package: SETTLEMENT_DATA

Results from a published Settlements Run. The settlement data and billing run data are updated daily between 6 am and 8 am 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.

4.4.1 New table: SET_NMAS_MANUAL_PAYMENT

Comment	**This report contains the NMAS Manual TI Payments that are uploaded by the Settlement Business Team. Amounts in this table are not calculated by the Settlement System.**
Visibility	Private
Data volume	Low
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports

Comment	This report contains the NMAS Manual TI Payments that are uploaded by the Settlement Business Team. Amounts in this table are not calculated by the Settlement System.
Primary key (in order)	SETTLEMENTDATE, VERSIONNO, PARTICIPANTID, CONTRACTID, DUID, SERVICE, PAYMENTTYPE, PERIODID
Project	Improving Security Frameworks

New columns

Field name	Data type	Primary key	Comment
SETTLEMENTDATE	DATE	Yes	The Settlement Date of the Billing Week
VERSIONNO	NUMBER(3,0)	Yes	The Settlement Run No
PARTICIPANTID	VARCHAR2(20)	Yes	The Contract Participant Id
CONTRACTID	VARCHAR2(20)	Yes	The NMAS System Security Contract ID
DUID	VARCHAR2(10)	Yes	The DUID associated with the Contract Payment
SERVICETYPE	VARCHAR2(20)	Yes	The NMAS System Security Service Types (INERTIA, SYSTEM STRENGTH, TYPE1, TYPE2 and so on)
PAYMENTYPE	VARCHAR2(20)	Yes	The Payment Type associated with the Service like Availability, Usage, Enablement, Energy Revenue, Test, ADHOC and so on
PERIODID	NUMBER(3,0)	Yes	The Settlement Period Id (1-288)
REGIONID	VARCHAR2(10)	No	The Contract Region Id
PAYMENTAMOUNT	NUMBER(18,8)	No	The NMAS Contract Manual Payment for the Payment Type
LASTCHANGED	DATE	No	The last changed date time of the record

4.4.2 Modified table: SET_FCAS_REG_RESIDAMT(Comment Changes Only)

Comment	This report contains 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.
Visibility	Private
Data volume	Medium
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	SETTLEMENTDATE, VERSIONNO, PARTICIPANTID, CONSTRAINTID, PERIODID, REGIONID
Project	Frequency Performance Payments (FPP)

Modified columns

Field name	Data type	Primary key	Comment
ASOE_MWH	NUMBER(18,8)	No	The ASOE MWh value that is used for the FCAS Residual Calculation.(Excluding CPID with CF).
RESIDUAL_MWH	NUMBER(18,8)	No	Sum of ABS(ACE_MWh) + ASOE_MWh. The MWh is not netted for residual calculation.
USED_ASOE_AMOUNT	NUMBER(18,8)	No	The Used Recovery ASOE Amount calculated using the portion of ASOE MWh value against the Total residual MWh of the requirement regions.
USED_RESIDUAL_AMOUNT	NUMBER(18,8)	No	Sum of USED_ACE_AMOUNT + USED_ASOE_AMOUNT

Field name	Data type	Primary key	Comment
UNUSED_ASOE_AMOUNT	NUMBER(18,8)	No	The Unused Recovery ASOE Amount calculated using the portion of ASOE MWh value against the Total residual MWh of the requirement regions.
UNUSED_RESIDUAL_AMOUNT	NUMBER(18,8)	No	Sum of UNUSED_ACE_AMOUNT + UNUSED_ASOE_AMOUNT

4.4.3 Modified table: SET_FCAS_REG_DEF_RESIDAMT(Comment Changes Only)

Comment	**This report contains 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.**
Visibility	Private
Data volume	Medium
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	SETTLEMENTDATE, VERSIONNO, PARTICIPANTID, CONSTRAINTID, PERIODID, REGIONID
Project	Frequency Performance Payments (FPP)

Modified columns

Field name	Data type	Primary key	Comment
RESIDUAL_MWH	NUMBER(18,8)	No	Sum of ABS(ACE_MWh) + ASOE_MWh. The MWh is not netted for residual calculation.

Field name	Data type	Primary key	Comment
UNUSED_ASOE_AMOUNT	NUMBER(18,8)	No	The Unused Recovery ASOE Amount calculated using the ASOE MWh value of the requirement regions.
UNUSED_RESIDUAL_AMOUNT	NUMBER(18,8)	No	Sum of UNUSED_ACE_AMOUNT + UNUSED_ASOE_AMOUNT

4.5 Package: BILLING_RUN

Results from a published Billing Run. The settlement data and billing run data are updated daily between 6 am and 8 am 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 number.

4.5.1 New table: BILLING_NMAS_MANUAL_PAYMENT

Comment	This report contains the NMAS Manual Weekly Payments that are uploaded by the Settlement Business Team. Amounts in this table are not calculated by the Settlement System.
Visibility	Private
Data volume	Low
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	CONTRACTYEAR, WEEKNO, BILLRUNNO, PARTICIPANTID, CONTRACTID, DUID, SERVICE, PAYMENTTYPE
Project	Improving Security Frameworks

New columns

Field name	Data type	Primary key	Comment
CONTRACTYEAR	NUMBER(4,0)	Yes	The Billing Contract Year
WEEKNO	NUMBER(3,0)	Yes	The Billing WeekNo
BILLRUNNO	NUMBER(4,0)	Yes	The Billing RunNo
PARTICIPANTID	VARCHAR2(20)	Yes	The Contract Participant Id
CONTRACTID	VARCHAR2(20)	Yes	The NMAS System Security Contract ID
DUID	VARCHAR2(10)	Yes	The DUID associated with the Contract Payment
SERVICETYPE	VARCHAR2(20)	Yes	The NMAS System Security Service Types (INERTIA, SYSTEM STRENGTH, TYPE1, TYPE2 and so on)
PAYMENTYPE	VARCHAR2(20)	Yes	The Payment Type associated with the Service like Availability, Usage, Enablement, Energy Revenue, Test, ADHOC and so on
REGIONID	VARCHAR2(10)	No	The Contract Region Id
PAYMENTAMOUNT	NUMBER(18,8)	No	The NMAS Contract Manual Payment for the Payment Type
LASTCHANGED	DATE	No	The last changed date time of the record

4.5.2 New table: BILLING_NMAS_MANUAL_RECOVERY

Comment	**This report shows the summary of the Billing NMAS Recovery Amounts. This table will have recovery data for manual payments for System Security Services.**
Visibility	Private

Comment	This report shows the summary of the Billing NMAS Recovery Amounts. This table will have recovery data for manual payments for System Security Services.
Data volume	Medium
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	CONTRACTYEAR, WEEKNO, BILLRUNNO, PARTICIPANTID, CONTRACTID, SERVICE, PAYMENTTYPE, REGIONID
Project	Improving Security Frameworks

New columns

Field name	Data type	Primary key	Comment
CONTRACTYEAR	NUMBER(4,0)	Yes	The Billing Contract Year
WEEKNO	NUMBER(3,0)	Yes	The Billing WeekNo
BILLRUNNO	NUMBER(4,0)	Yes	The Billing RunNo
PARTICIPANTID	VARCHAR2(20)	Yes	The Contract Participant Id
CONTRACTID	VARCHAR2(20)	Yes	The NMAS System Security Contract ID
SERVICETYPE	VARCHAR2(20)	Yes	The NMAS System Security Service Types (INERTIA, SYSTEM STRENGTH, TYPE1, TYPE2 and so on)
PAYMENTYPE	VARCHAR2(20)	Yes	The Payment Type associated with the Service like Availability, Usage, Enablement, Energy Revenue, Test, ADHOC and so on

Field name	Data type	Primary key	Comment
REGIONID	VARCHAR2(10)	Yes	Region Identifier
PAYMENTAMOUNT	NUMBER(18,8)	No	The NMAS Contract Manual Payment for the Payment Type
RECOVERYSTARTDATETIME	DATE	No	The Recovery Start Date and Time for the Payment Calculation
RECOVERYENDDATETIME	DATE	No	The Recovery End Date and Time for the Payment Calculation
RECOVERYAMOUNT_ACE	NUMBER(18,8)	No	Recovery Amount on ACE portion ($)
RECOVERYAMOUNT_ASOE	NUMBER(18,8)	No	Recovery Amount on ASOE portion ($)
PARTICIPANTACE_MWH	NUMBER(18,8)	No	Participant Consumed Energy in MWh
PARTICIPANTASOE_MWH	NUMBER(18,8)	No	Participant Sent Out Energy in MWh
REGIONACE_MWH	NUMBER(18,8)	No	Region Consumed Energy in MWh
REGIONASOE_MWH	NUMBER(18,8)	No	Region Sent Out Energy in MWh
LASTCHANGED	DATE	No	The last changed date time of the record

4.6 Package: DISPATCH

Results from a published **Dispatch** Run.

4.6.1 New table: DISPATCH_ROOFTOP_PV_FCST_TRK

Comment	Uniquely tracks which Rooftop PV forecast run (from ROOFTOP_PV_FCST_P5_RUN) was used for the Area in which Dispatch run.
Visibility	PUBLIC
Data volume	Small
Trigger	Every 5 minutes when a new dispatch run is published.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, AREAID
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	YES	Datetime (interval ending) of the Dispatch run
AREAID	VARCHAR2(10)	YES	Area identifier aligning with the load forecasting areas, tracks to ROOFTOP_PV_FCST_P5_RUN.AREAID
FORECAST_RUN_DATETIME	DATE	NO	Datetime (interval ending) when this forecast run is valid. It aligns with run_datetime, unless a forecast run is missed, in this case the previous run is used. Tracks to ROOFTOP_PV_FCST_P5_RUN.FORECAST_RUN_DATETIME

Field name	Data type	Primary key	Comment
PROVIDERID	VARCHAR2(20)	NO	Provider identifier of the forecast run used for the DS run, tracks to ROOFTOP_PV_FCST_P5_RUN.PROVIDERID
FORECAST_PRIORITY	NUMBER(10,0)	NO	Priority of the forecast run used for the DS run, tracks to ROOFTOP_PV_FCST_P5_RUN.FORECAST_PRIORITY
OFFERDATETIME	DATE	NO	Submission datetime of the forecast run used for the DS run, tracks to ROOFTOP_PV_FCST_P5_RUN.OFFERDATETIME

4.7 Package: P5MIN

Results from a published Five-Minute Pre-dispatch Run.

4.7.1 New table: P5MIN_INTERMITTENT_FCST_TRK

Comment	Uniquely tracks which Intermittent Generation forecast run (from INTERMITTENT_GEN_FCST_P5_RUN) was used for the DUID in which 5-Minute Pre-dispatch run.
Visibility	Private, Public Next-Day
Data volume	Small
Trigger	Every 5 minutes when a new 5-Minute Pre-dispatch run is published.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, DUID

Comment	**Uniquely tracks which Intermittent Generation forecast run (from INTERMITTENT_GEN_FCST_P5_RUN) was used for the DUID in which 5-Minute Pre-dispatch run.**
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	YES	Datetime (interval ending) of the 5-Minute Pre-dispatch run
DUID	VARCHAR2(10)	YES	Dispatchable unit identifier, tracks to INTERMITTENT_GEN_FCST_P5_RUN.DUID
FORECAST_RUN_DATETIME	DATE	NO	Datetime (interval ending) when this forecast run is valid. It aligns with run_datetime, unless a forecast run is missed in which case the previous run is used. Tracks to INTERMITTENT_GEN_FCST_P5_RUN.FORECAST_RUN_DATETIME
PROVIDERID	VARCHAR2(20)	NO	Provider of the forecast run used for the 5MPD run, tracks to INTERMITTENT_GEN_FCST_P5_RUN.PROVIDERID
FORECAST_PRIORITY	NUMBER(10,0)	NO	Priority of the forecast run used for the 5MPD run, tracks to INTERMITTENT_GEN_FCST_P5_RUN.FORECAST_PRIORITY
OFFERDATETIME	DATE	NO	Submission datetime of the forecast run used for the 5MPD run, tracks to INTERMITTENT_GEN_FCST_P5_RUN.OFFERDATETIME

4.7.2 New table: P5MIN_ROOFTOP_PV_FCST_TRK

Comment	Uniquely tracks which Rooftop PV forecast run (from ROOFTOP_PV_FCST_P5_RUN) was used for the Area in which 5-Minute Pre-dispatch run.
Visibility	PUBLIC
Data volume	Small
Trigger	Every 5 minutes when a new 5-Minute Pre-dispatch run is published.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, AREAID
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	YES	Datetime (interval ending) of the 5-Minute Pre-dispatch run
AREAID	VARCHAR2(10)	YES	Area identifier aligning with the load forecasting areas, tracks to ROOFTOP_PV_FCST_P5_RUN.AREAID
FORECAST_RUN_DATETIME	DATE	NO	Datetime (interval ending) when this forecast run is valid. It aligns with run_datetime, unless a forecast run is missed, in this case the previous run is used. Tracks to ROOFTOP_PV_FCST_P5_RUN.FORECAST_RUN_DATETIME
PROVIDERID	VARCHAR2(20)	NO	Provider identifier of the forecast run used for the DS run, tracks to ROOFTOP_PV_FCST_P5_RUN.PROVIDERID

Field name	Data type	Primary key	Comment
FORECAST_PRIORITY	NUMBER(10,0)	NO	Priority of the forecast run used for the DS run, tracks to ROOFTOP_PV_FCST_P5_RUN.FORECAST_PRIORITY
OFFERDATETIME	DATE	NO	Submission datetime of the forecast run used for the DS run, tracks to ROOFTOP_PV_FCST_P5_RUN.OFFERDATETIME

4.8 Package: PRE-DISPATCH

Results from a published 30 minute Pre-dispatch Run.

4.8.1 New table: PREDISPATCHINTERMITTENTFCSTTRK

Comment	Uniquely tracks which Intermittent Generation forecast run (from INTERMITTENT_GEN_FCST_RUN) was used for the DUID in which Pre-dispatch run.
Visibility	Private, Public Next-Day
Data volume	Small
Trigger	Every 30 minutes when a new Pre-dispatch run is published.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	PREDISPATCHSEQNO, DUID
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
PREDISPATCHSEQNO	DATE	YES	Unique identifier of Pre-dispatch run in the form YYYYMMDDPP with 01 at 04:30
DUID	VARCHAR2(10)	YES	Dispatchable unit identifier, tracks to INTERMITTENT_GEN_FCST_RUN.DUID
FORECAST_RUN_DATETIME	DATE	NO	Datetime (interval ending) when this forecast run is valid. It aligns with run_datetime, unless a forecast run is missed, in this case the previous run is used. Tracks to INTERMITTENT_GEN_FCST_RUN.FORECAST_RUN_DATETIME
PROVIDERID	VARCHAR2(20)	NO	Provider of the forecast run used for the PD run, tracks to INTERMITTENT_GEN_FCST_RUN.PROVIDERID
FORECAST_PRIORITY	NUMBER(10,0)	NO	Priority of the forecast run used for the PD run, tracks to INTERMITTENT_GEN_FCST_RUN.FORECAST_PRIORITY
OFFERDATETIME	DATE	NO	Submission datetime of the forecast run used for the PD run, tracks to INTERMITTENT_GEN_FCST_RUN.OFFERDATETIME

4.8.2 New table: PREDISPATCH_ROOFTOPPV_FCST_TRK

Comment	**Uniquely tracks which Rooftop PV forecast run (from ROOFTOP_PV_FCST_RUN) was used for the Area in which Pre-dispatch run.**
Visibility	Public
Data volume	Small
Trigger	Every 30 minutes when a new Pre-dispatch run is published.

Comment	Uniquely tracks which Rooftop PV forecast run (from ROOFTOP_PV_FCST_RUN) was used for the Area in which Pre-dispatch run.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	PREDISPATCHSEQNO, AREAID
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
PREDISPATCHSEQNO	DATE	YES	Unique identifier of Pre-dispatch run in the form YYYYMMDDPP with 01 at 04:30
AREAID	VARCHAR2(10)	YES	Area identifier aligning with the load forecasting areas, tracks to ROOFTOP_PV_FCST_RUN.AREAID
FORECAST_RUN_DATETIME	DATE	NO	Datetime (interval ending) when the forecast run is valid. It would align with run_datetime, unless a forecast run is missed, in this case the previous run will be used. Tracks to ROOFTOP_PV_FCST_RUN.FORECAST_RUN_DATETIME
PROVIDERID	VARCHAR2(20)	NO	Provider identifier of the forecast run used for the PD run, tracks to ROOFTOP_PV_FCST_RUN.PROVIDERID
FORECAST_PRIORITY	NUMBER(10,0)	NO	Priority of the forecast run used for the PD run, tracks to ROOFTOP_PV_FCST_RUN.FORECAST_PRIORITY
OFFERDATETIME	DATE	NO	Submission datetime of the forecast run used for the PD run, tracks to ROOFTOP_PV_FCST_RUN.OFFERDATETIME

4.9 Package: MARKET_CONFIG

Standing data for the market.

4.9.1 New table: AREA

Comment	**Table containing static metadata for the Areas, which are sub-regions used in load forecasting and rooftop PV forecasting. The latest metadata can be obtained for each AreaID using the most recent EffectiveDate and then VersionNo. If an AreaID is not mapped to an active RegionID in the corresponding REGION_AREA table, then that AreaID can be considered inactive.**
Visibility	Public
Data volume	Small
Trigger	Ad hoc when Areas are updated or added.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	AREAID, EFFECTIVEDATE, VERSIONNO
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
AREAID	VARCHAR2(10)	YES	Area identifier
EFFECTIVEDATE	DATE	YES	Calendar date from when this record set is effective

Field name	Data type	Primary key	Comment
VERSIONNO	NUMBER(3,0)	YES	Version number for the same effectivedate
AREA_NAME	VARCHAR2(20)	NO	Area name
AREA_DESCRIPTION	VARCHAR2(200)	NO	Area description
LASTCHANGED	DATE	NO	Last date and time record changed

4.9.2 New table: REGION_AREA

Comment	Table containing static metadata for mapping the Areas to Regions. The latest mapping can be obtained for each RegionID using the most recent EffectiveDate and then VersionNo.
Visibility	Public
Data volume	Small
Trigger	Ad hoc when Area-Region mappings are updated or added.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	REGIONID, EFFECTIVEDATE, VERSIONNO, AREAID
Project	Operational Forecasting

New columns

Field name	Data type	Primary key	Comment
REGIONID	VARCHAR2(10)	YES	Region identifier
EFFECTIVEDATE	DATE	YES	Calendar date from when this record set is effective
VERSIONNO	NUMBER(3,0)	YES	Version number for the same effectivedate
AREAID	VARCHAR2(10)	YES	Area identifier
LASTCHANGED	DATE	NO	Last date and time record changed

4.10 New Package: SYSTEM_SECURITY_MANAGEMENT

Package for ISF (Improving Security Frameworks) for Electricity Power System Security procurement (not related to IT security)

4.10.1 New table: SSM_CONTRACT_UNIT_AVAIL

Comment	**The variable parameters associated to the Unit within an SSM Contract, allowing changes to the base contract values due to unit availabilities (e.g Maintenance, Outages).**
Visibility	Private
Data volume	Small
Trigger	On change of the Contract Availability.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports

Comment	The variable parameters associated to the Unit within an SSM Contract, allowing changes to the base contract values due to unit availabilities (e.g Maintenance, Outages).
Primary key (in order)	CONTRACT_ID,DUID,INTERVAL_DATETIME,VERSION_DATETIME
Project	Improving Security Frameworks (ISF) Phase 1 (Dec 2025 rule change)

New columns

Field name	Data type	Primary key	Comment
CONTRACT_ID	VARCHAR2(20)	Yes	Unique Contract Identifier
DUID	VARCHAR2(10)	Yes	Dispatchable Unit Identifier
INTERVAL_DATETIME	DATE	Yes	The starting Dispatch Interval for the availability change. This will be the active availability until the next INTERVAL_DATETIME record for this Contract and DUID
VERSION_DATETIME	DATE	Yes	Effective Date and Time of this record
AVAILABLE	NUMBER(1,0)	No	Indicates if DUID is available for the INTERVAL_DATETIME (1 = True, 0 = False)
UNIT_COUNT	NUMBER(4,0)	No	Number of sub-units within a DUID that are available for enablement
ACTIVATION_LEAD_TIME	NUMBER(6,0)	No	The expected maximum lead time for the system security service to be enabled from a non-operational state in hour or min
MIN_DISPATCH_MW	NUMBER(18,8)	No	Minimum Dispatch Target required for DUID to enable the contract
MIN_ENABLEMENT_DURATION	NUMBER(6,0)	No	Minimum duration a unit must be active to enable the contract
LASTCHANGED	DATE	No	Last time record was changed

4.10.2 New table: SSM_INSTRUCTION

Comment	An enablement of an SSM Contract that instructs a Dispatchable Unit is to provide a System Security Service.
Visibility	Private
Data volume	Medium
Trigger	On enablement of a contract to provide System Security Services.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INSTRUCTION_ID, VERSION_DATETIME
Project	Improving Security Frameworks (ISF) Phase 1 (Dec 2025 rule change)

New columns

Field name	Data type	Primary key	Comment
INSTRUCTION_ID	VARCHAR2(20)	Yes	Unique Instruction Identifier
VERSION_DATETIME	DATE	Yes	Effective Date and Time of this record
INITIAL_INSTRUCTION_ID	VARCHAR2(20)	No	Unique transaction identifier of initiating transaction if instruction related to an amendment or cancellation
DUID_PARTICIPANTID	VARCHAR2(10)	No	Primary recipient (SSM Service Provider) of enablement instruction
CONTRACT_ID	VARCHAR2(20)	No	Unique Contract Identifier used to create enablement
TNSP_PARTICIPANTID	VARCHAR2(10)	No	Participant ID of TNSP if contract procurer is TNSP

Field name	Data type	Primary key	Comment
DUID	VARCHAR2(20)	No	Dispatchable Unit Identifier
UNIT_COUNT	NUMBER(4,0)	No	Number of sub-units within a DUID that are required for enablement. Value of zero means cancellation of instruction
EQUIPMENT_TYPE	VARCHAR2(40)	No	Dispatchable Unit resource (for example, GENERATOR, LOAD, BIDIRECTIONAL, SYNCHRONOUS CONDENSER)
SERVICE_TYPE	VARCHAR2(40)	No	Requested Service to provide (System strength – combination, System strength – coefficient, NSCAS – voltage control, NSCAS, Inertia, Transitional service – type 1 MSL, Transitional service – type 1, Transitional service – type 2)
MIN_DISPATCH_MW	NUMBER(18,8)	No	Minimum Dispatch Target required for DUID to enable the contract. Value of zero means cancellation of instruction
START_INTERVAL_DATETIME	DATE	No	The first Dispatch Interval of the enablement
END_INTERVAL_DATETIME	DATE	No	The last Dispatch Interval of the enablement
LASTCHANGED	DATE	No	Last time record was changed

4.10.3 New table: SSM_SCHEDULE

Comment	Scheduled SSM contract enablement's.
Visibility	Private
Data volume	Medium
Trigger	Timed trigger once per day for previous day.

Comment	Scheduled SSM contract enablement's.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INSTRUCTION_ID
Project	Improving Security Frameworks (ISF) Phase 1 (Dec 2025 rule change)

New columns

Field name	Data type	Primary key	Comment
INSTRUCTION_ID	VARCHAR2(20)	Yes	Unique Instruction Identifier
CONTRACT_ID	VARCHAR2(20)	No	Unique Contract Identifier used to create enablement
DUID_PARTICIPANTID	VARCHAR2(10)	No	Primary recipient (SSM Service Provider)
TNSP_PARTICIPANTID	VARCHAR2(10)	No	Participant ID of TNSP if contract procurer is TNSP
DUID	VARCHAR2(20)	No	Dispatchable Unit Identifier
UNIT_COUNT	NUMBER(4,0)	No	Number of sub-units within a DUID that are required for enablement
EQUIPMENT_TYPE	VARCHAR2(40)	No	Dispatchable Unit resource (for example, GENERATOR, LOAD, BIDIRECTIONAL, SYNCHRONOUS CONDENSER)
SERVICE_TYPE	VARCHAR2(40)	No	Requested Service to provide (System strength – combination, System strength – coefficient, NSCAS – voltage control, NSCAS, Inertia, Transitional service – type 1 MSL, Transitional service – type 1, Transitional service – type 2)
MIN_DISPATCH_MW	NUMBER(18,8)	No	Minimum Dispatch Target required for DUID to enable the contract

Field name	Data type	Primary key	Comment
START_INTERVAL_DATETIME	DATE	No	The first Dispatch Interval of the enablement
END_INTERVAL_DATETIME	DATE	No	The last Dispatch Interval of the enablement
LASTCHANGED	DATE	No	Last time record was changed

4.10.4 New table: SSM_SCHEDULED_AVAILABILITY

Comment	Scheduled SSM availability.
Visibility	Private
Data volume	Medium
Trigger	Timed trigger once per day for previous day.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	CONTRACT_ID, DUID, AVAILABLE_START_INTERVAL
Project	Improving Security Frameworks (ISF) Phase 1 (Dec 2025 rule change)

New columns

Field name	Data type	Primary key	Comment
CONTRACT_ID	VARCHAR2(20)	Yes	Unique Contract Identifier
DUID	VARCHAR2(20)	Yes	Dispatchable Unit Identifier
AVAILABLE_START_INTERVAL	DATE	Yes	The first Dispatch Interval the unit is available
AVAILABLE_END_INTERVAL	DATE	No	The last Dispatch Interval the unit is available
TNSP_PARTICIPANTID	VARCHAR2(10)	No	TNSP Participant ID
LASTCHANGED	DATE	No	Last time record was changed

4.10.5 New table: SSM_ENABLEMENT_PERIOD

Comment	SSM Contract Enablement Periods
Visibility	Public
Data volume	Medium
Trigger	Timed trigger once per day for previous day.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INSTRUCTION_ID, DUID, ENABLEMENT_START_INTERVAL
Project	Improving Security Frameworks (ISF) Phase 1 (Dec 2025 rule change)

New columns

Field name	Data type	Primary key	Comment
INSTRUCTION_ID	VARCHAR2(20)	Yes	Unique Instruction Identifier
DUID	VARCHAR2(20)	Yes	Dispatchable Unit Identifier
ENABLEMENT_START_INTERVAL	DATE	Yes	The first Dispatch Interval the unit is enabled for SSM Services
ENABLEMENT_END_INTERVAL	DATE	No	The last Dispatch Interval the unit is enabled for SSM Services
ENABLEMENT_REASON	VARCHAR2(40)	No	Reason for the enablement
LASTCHANGED	DATE	No	Last time record was changed

4.10.6 New table: SSM_ENABLEMENT_COSTS

Comment	SSM Contract Enablement Costs.
Visibility	Public
Data volume	Medium
Trigger	Timed trigger once per day for previous day.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INSTRUCTION_ID, DUID, ENABLEMENT_START_INTERVAL
Project	Improving Security Frameworks (ISF) Phase 1 (Dec 2025 rule change)

New columns

Field name	Data type	Primary key	Comment
INSTRUCTION_ID	VARCHAR2(20)	Yes	Unique Instruction Identifier
ENABLEMENT_REASON	VARCHAR2(20)	Yes	Primary Service type associated to the DUID
ESTIMATED_COSTS	NUMBER(9,2)	Yes	The first Dispatch Interval the unit is enabled for SSM Services
LASTCHANGED	DATE	No	Last time record was changed

4.11 Package: PDPASA

The PDPASA package provides a 30-minute solving process to the Market systems. Currently to calculate reserves in the Pre-dispatch timeframe, this is determined by a post processing step using a heuristic calculation-based result and Interconnector limits from the Pre-dispatch run. The calculation is a reserve assessment based on the PASA solver, like existing ST and MT PASA business processes. The process reflects all intra-regional and inter-regional network constraints as an input to the process.

4.11.1 Modified Table: PDPASA_DUIDAVAILABILITY (Comment Changes Only)

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.
Visibility	Public
Data volume	Medium
Trigger	Close to or start of PDPASA run.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports

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.**
Primary key (in order)	RUN_DATETIME, INTERVAL_DATETIME, DUID
Project	ST PASA Procedure and Recall Period

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	PDPASA run, identified by the first half hour ended interval of the run
LASTCHANGED	DATE	No	Report Creation Date Time

4.11.2 Modified table: PDPASA_REGIONSOLUTION (Comment Changes Only)

Comment	**The PDPASA region solution data.** **Note that the OUTAGE_LRC Run Type is no longer reported from 31 July 2025.**
Visibility	Public
Data volume	Medium
Trigger	PDPASA_REGIONSOLUTION is updated each PDPASA run (i.e. half-hourly).

Comment	The PDPASA region solution data. Note that the OUTAGE_LRC Run Type is no longer reported from 31 July 2025.
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME, REGIONID, RUN_DATETIME, RUNTYPE
Project	ST PASA Procedure and Recall Period

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
RESERVEREQ	NUMBER(12,2)	No	Reserve Requirement (MW). This field is not populated after 30 July 2025.
CAPACITYREQ	NUMBER(12,2)	No	Demand + Reserve requirements (MW). This field is not populated after 30 July 2025.
ENERGYREQDEMAND50	NUMBER(12,2)	No	Sum of: (Region Demand50)/Period (sum by trading day, entered in first period of trading day, GWh)
UNCONSTRAINEDCAPACITY	NUMBER(12,0)	No	Aggregate generation + WDR capacity from Non-Energy Constrained plant subjected to restrictions due to network constraints
CONSTRAINEDCAPACITY	NUMBER(12,0)	No	Aggregate generation + WDR capacity from Energy Constrained plant subjected to restrictions due to network constraints

Field name	Data type	Primary key	Comment
NETINTERCHANGEUNDERSCARCITY	NUMBER(12,2)	No	Net export (MW) out of this region in the LOR evaluation. Export if > 0, Import if < 0. This value is the same as LORNETINTERCHANGEUNDERSCARCITY.
SURPLUSCAPACITY	NUMBER(12,2)	No	Regional surplus capacity (MW), +/- values indicate surplus/deficit capacity respectively. This value reflects Regional LOR reserve.
SURPLUSRESERVE	NUMBER(12,2)	No	Regional surplus reserve (MW). This value also reflects Regional LOR reserve. Note: For LOR runs, RESERVEREQ requirement input is not used.
RESERVECONDITION	NUMBER(1,0)	No	Regional reserve condition from LRC run. This field is not populated after 30 July 2025.
MAXSURPLUSRESERVE	NUMBER(12,2)	No	Maximum Surplus Reserve (MW) evaluated for this region from LRC runs. This field is no longer populated.
MAXSPARECAPACITY	NUMBER(12,2)	No	Maximum Spare Capacity (MW) evaluated for this region. Calculated for each region in turn. This value reflects Regional LOR reserve.
LASTCHANGED	DATE	No	Date time this record was created
AGGREGATEPASAAVAILABILITY	NUMBER(12,0)	No	Sum of PASAAVAILABILITY for all scheduled generating units and scheduled bidirectional units (Gen side) with a Recall_Period <= 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)	Yes	Type of run. Values are 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.
MSRNETINTERCHANGEUNDERSCARCITY	NUMBER(12,2)	No	Net interconnector flow from the region for this interval from the MSR assessment. This field is no longer populated.

Field name	Data type	Primary key	Comment
SEMISCHEDULEDCAPACITY	NUMBER(12,2)	No	Constrained generation forecast (MW) for semi-scheduled units for the region. For OUTAGE_LRC run and LOR run, semi-scheduled generation is constrained by both System Normal and Outage constraints. All run types (OUTAGE_LRC, LOR) incorporate MAXAVAIL limits.
LCR2	NUMBER(16,6)	No	Two Largest Credible Risks. MW value for highest two credible contingencies.
SS_SOLAR_UIGF	NUMBER(12,2)	No	Unconstrained Intermittent Generation Forecast for solar for the region. For 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)	No	Unconstrained Intermittent Generation Forecast for wind for the region. For 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)	No	Constrained generation forecast for solar for the region. For OUTAGE_LRC run and LOR run. solar generation is constrained by both System Normal and Outage constraints. All run types (OUTAGE_LRC, LOR) incorporate MAXAVAIL limits.
SS_WIND_CAPACITY	NUMBER(12,2)	No	Constrained generation forecast for wind for the region. For OUTAGE_LRC run and LOR run, wind generation is constrained by both System Normal and Outage constraints. All run types (OUTAGE_LRC, LOR) incorporate MAXAVAIL limits.
SS_SOLAR_CLEARED	NUMBER(12,2)	No	Constrained generation forecast (MW) for solar for the region. For OUTAGE_LRC run and LOR run, solar generation is constrained by both System Normal and Outage constraints. All run types (OUTAGE_LRC, LOR) incorporate MAXAVAIL limits. This value is the same as SS_SOLAR_CAPACITY.
SS_WIND_CLEARED	NUMBER(12,2)	No	Constrained generation forecast (MW) for wind for the region. For OUTAGE_LRC run and LOR run, wind generation is constrained by both System Normal and Outage constraints. All run types (OUTAGE_LRC, LOR) incorporate MAXAVAIL limits. This value is the same as SS_WIND_CAPACITY.

4.12 Package: STPASA

Results from a published Short Term PASA Run.

4.12.1 Modified Table: STPASA_DUIDAVAILABILITY (Comment Changes Only)

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.
Visibility	Public
Data volume	Medium
Trigger	Start of each STPASA run (every hour).
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, INTERVAL_DATETIME, DUID
Project	ST PASA Procedure and Recall Period

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	STPASA run, identified by the nominal start time of the run
LASTCHANGED	DATE	No	Report Creation Date Time

4.12.2 Modified table: STPASA_REGIONSOLUTION (Comment Changes Only)

Comment	**STPASA_REGIONSOLUTION shows the results of the regional capacity, maximum surplus reserve and maximum spare capacity evaluations for each period of the study.** **Note that the RELIABILITY_LRC and OUTAGE_LRC Run Types are no longer reported from 31 July 2025.**
Visibility	Public
Data volume	Large
Trigger	Start of each STPASA run (every hour).
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME, REGIONID, RUN_DATETIME, RUNTYPE
Project	ST PASA Procedure and Recall Period

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the nominal start time of the run
INTERVAL_DATETIME	DATE	Yes	End date time of the interval
DEMAND10	NUMBER(12,2)	No	10% Probability of Exceedance demand forecast
DEMAND50	NUMBER(12,2)	No	50% Probability of Exceedance demand forecast

Field name	Data type	Primary key	Comment
DEMAND90	NUMBER(12,2)	No	90% Probability of Exceedance demand forecast
RESERVEREQ	NUMBER(12,2)	No	Reserve Requirement (MW). This field is not populated after 30 July 2025.
CAPACITYREQ	NUMBER(12,2)	No	Demand + Reserve requirements (MW). This field is not populated after 30 July 2025.
ENERGYREQDEMAND50	NUMBER(12,2)	No	Sum of: (Region Demand50)/Period (sum by trading day, entered in first period of trading day, GWh)
UNCONSTRAINEDCAPACITY	NUMBER(12,0)	No	Aggregate generation + WDR capacity from Non-Energy Constrained plant subjected to restrictions due to network constraints
CONSTRAINEDCAPACITY	NUMBER(12,0)	No	Aggregate generation + WDR capacity from Energy Constrained plant subjected to restrictions due to network constraints
NETINTERCHANGEUNDERSCARCITY	NUMBER(12,2)	No	Net export (MW) out of this region in the LOR evaluation. Export if > 0, Import if < 0. This value is the same as LORNETINTERCHANGEUNDERSCARCITY.
SURPLUSCAPACITY	NUMBER(12,2)	No	Regional surplus capacity (MW), +/- values indicate surplus/deficit capacity respectively. This value reflects Regional LOR reserve.
SURPLUSRESERVE	NUMBER(12,2)	No	Regional surplus reserve (MW). This value also reflects Regional LOR reserve. Note: For LOR runs, RESERVEREQ requirement input is not used.
RESERVECONDITION	NUMBER(1,0)	No	Regional reserve condition from LRC run. This field is not populated after 30 July 2025.
MAXSURPLUSRESERVE	NUMBER(12,2)	No	Maximum Surplus Reserve (MW) evaluated for this region from LRC runs. This field is no longer populated.
MAXSPARECAPACITY	NUMBER(12,2)	No	Maximum Spare Capacity (MW) evaluated for this region. Calculated for each region in turn. This value reflects Regional LOR reserve.
LASTCHANGED	DATE	No	Date time this record was created

Field name	Data type	Primary key	Comment
AGGREGATEPASAAVAILABILITY	NUMBER(12,0)	No	Sum of PASAAVAILABILITY for all scheduled generating units and scheduled bidirectional units (Gen side) with a Recall_Period <= 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.
MSRNETINTERCHANGEUNDERSCARCITY	NUMBER(12,2)	No	Net interconnector flow from the region for this interval from the MSR assessment. This field is no longer populated.
SEMISCHEDULEDCAPACITY	NUMBER(12,2)	No	Constrained generation forecast (MW) 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)	No	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.
LCR2	NUMBER(16,6)	No	Two Largest Credible Risks. MW value for highest two credible contingencies.
SS_SOLAR_CLEARED	NUMBER(12,2)	No	Constrained generation forecast (MW) 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. This value is the same as SS_SOLAR_CAPACITY.

Field name	Data type	Primary key	Comment
SS_WIND_CLEARED	NUMBER(12,2)	No	Constrained generation forecast (MW) 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. This value is the same as SS_WIND_CAPACITY.

4.13 File interface changes

Package	File ID	Description	Batcher file masks	Frequency	Change	Auto-subscription
DEMAND_FORECASTS	INTERMITTENT_GEN_FCST	Real-time private forecasts for intermittent wind and solar units (30-min PD/STPASA timeframe)	*_INTERMITTENT_GEN_FCST_*.CSV	30 min	New	Yes
	NEXT_DAY_INTERMITTENT_GEN_FCST	Next day public forecasts for	PUBLIC_NEXT_DAY_INTERMITTENT_GEN_FCST_*.CSV	Daily	New	No

Package	File ID	Description	Batcher file masks	Frequency	Change	Auto-subscription
		intermittent wind and solar units (30-min PD/STPASA timeframe)				
	INTERMITTENT_GEN_FCST_P5	Real-time private forecasts for intermittent wind and solar units (5-min P5MIN timeframe)	*_INTERMITTENT_GEN_FCST_P5_*.CSV	5 min	New	Yes
	NEXT_DAY_INTERMITTENT_GEN_FCST_P5	Next day public forecasts for intermittent wind and solar units (5-min P5MIN	PUBLIC_NEXT_DAY_INTERMITTENT_GEN_FCST_P5_*.CSV	Daily	New	No

Package	File ID	Description	Batcher file masks	Frequency	Change	Auto-subscription
		timeframe)				
	ROOFTOP_PV_FCST	Real-time public forecasts for rooftop PV Areas (30-min PD/STPASA timeframe)	PUBLIC_ROOFTOP_PV_FCST_*.CSV	30 min	New	No
	ROOFTOP_PV_FCST_P5	Real-time public forecasts for rooftop PV Areas (5-min DS/P5MIN timeframe)	PUBLIC_ROOFTOP_PV_FCST_P5_*.CSV	5 min	New	No
	ROOFTOP_PV_ACTL	Real-time public estimated actuals for rooftop	PUBLIC_ROOFTOP_PV_ACTL_*.CSV	5 and 30 min	New	No

Package	File ID	Description	Batcher file masks	Frequency	Change	Auto-subscription
		PV Areas (5-min and 30-min resolution)				
MARKET_CONFIG	AREA	Static metadata for the Areas (sub-regions used in load forecasting and rooftop PV forecasting)	PUBLIC_AREA_*.CSV	Ad hoc	New	Yes
	REGION_AREA	Static metadata for mapping the Areas (sub-regions) to Regions	PUBLIC_REGION_AREA_*.CSV	Ad hoc	New	Yes
	SSM_CONTACT_UNIT_AVAIL				New	Yes

Package	File ID	Description	Batcher file masks	Frequency	Change	Auto-subscription
SYSTEM_SECURITY_MANAGEMENT	SSM_INSTRUCTION				New	Yes
	SSM_DAILY_SCHEDULE				New	Yes
	SSM_AVAILABILITY				New	Yes
	SSM_ENABLEMENT_PERIOD				New	Yes
	SSM_ENABLEMENT_COSTS				New	Yes

4.14 Participant interfaces changes

Package	Data model table	File ID	CSV report type	Change
DEMAND_FORECASTS	INTERMITTENT_GEN_FCST_RUN	INTERMITTENT_GEN_FCST, NEXT_DAY_INTERMITTENT_GEN_FCST	INTERMITTENT_GEN,FORECAST,1	New
	INTERMITTENT_GEN_FCST_PRED	INTERMITTENT_GEN_FCST, NEXT_DAY_INTERMITTENT_GEN_FCST	INTERMITTENT_GEN,FORECAST,1	New
	INTERMITTENT_GEN_FCST_P5_RUN	INTERMITTENT_GEN_FCST_P5, NEXT_DAY_INTERMITTENT_GEN_FCST_P5	INTERMITTENT_GEN,FORECAST,1	New

Package	Data model table	File ID	CSV report type	Change
	INTERMITTENT_GEN_FCST_P5_PRED	INTERMITTENT_GEN_FCST_P5, NEXT_DAY_INTERMITTENT_GEN_FCST_P5	INTERMITTENT_GEN,FORECAST,1	New
	ROOFTOP_PV_FCST_RUN	ROOFTOP_PV_FCST	ROOFTOP,FORECAST,1	New
	ROOFTOP_PV_FCST_PRED	ROOFTOP_PV_FCST	ROOFTOP,FORECAST,1	New
	ROOFTOP_PV_FCST_P5_RUN	ROOFTOP_PV_FCST_P5	ROOFTOP,FORECAST,1	New
	ROOFTOP_PV_FCST_P5_PRED	ROOFTOP_PV_FCST_P5	ROOFTOP,FORECAST,1	New
	ROOFTOP_PV_ACTUAL_RUN	ROOFTOP_PV_ACTL	ROOFTOP,ACTUAL1	New
	ROOFTOP_PV_ACTUAL_PRED	ROOFTOP_PV_ACTL	ROOFTOP,ACTUAL,1	New
SETTLEMENT_DATA	SET_NMAS_MANUAL_PAYMENT	SETTLEMENTS_EXTN	SETTLEMENTS,NMAS_MANUAL_PAYMENT,1	New
BILLING_RUN	BILLING_NMAS_MANUAL_PAYMENT	BILLING	BILLING,NMAS_MANUAL_PAYMENT,1	New
	BILLING_NMAS_MANUAL_RECOVERY	BILLING	BILLING,NMAS_MANUAL_RECOVERY,1	New
DISPATCH	DISPATCH_ROOFTOP_PV_FCST_TRK	DISPATCHIS	DISPATCH,ROOFTOP_PV,1	New
P5MIN	P5MIN_INTERMITTENT_FCST_TRK	P5MIN, NEXT_DAY_INTERMITTENT_GEN_FCST_P5	P5MIN,INTERMITTENT_GEN,1	New

Package	Data model table	File ID	CSV report type	Change
	P5MIN_ROOFTOP_PV_FCST_TRK	P5MIN	P5MIN,ROOFTOP_PV,1	New
PRE-DISPATCH	PREDISPATCHINTERMITTENTFCSTTRK	PREDISPATCHIS, NEXT_DAY_INTERMITTENT_GEN_FCST	PREDISPATCH,INTERMITTENT_GEN,1	New
	PREDISPATCH_ROOFTOPPV_FCST_TRK	PREDISPATCHIS	PREDISPATCH,ROOFTOP_PV,1	New
MARKET_CONFIG	AREA	AREA	MARKET_CONFIG,AREA,1	New
	REGION_AREA	REGION_AREA	MARKET_CONFIG,REGION_AREA,1	New
SYSTEM_SECURITY_MANAGEMENT	SSM_CONTRACT_UNIT_AVAIL	SSM_CONTRACT_UNIT_AVAIL	SSM,CONTRACT_UNIT_AVAIL,1	New
	SSM_INSTRUCTION	SSM_INSTRUCTION	SSM,INSTRUCTION,1	New
	SSM_SCHEDULE	SSM_DAILY_SCHEDULE	SSM,SCHEDULE,1	New
	SSM_SCHEDULED_AVAILABILITY	SSM_AVAILABILITY	SSM,SCHEDULED_AVAILABILITY,1	New
	SSM_ENABLEMENT_PERIOD	SSM_ENABLEMENT_PERIOD	SSM,ENABLEMENT_PERIOD,1	New
	SSM_ENABLEMENT_COSTS	SSM_ENABLEMENT_COSTS	SSM,ENABLEMENT_COSTS,1	New

4.15 Discontinued reports

Data model table	File ID	Delivered in file	CSV report type	Replaced by
None				

4.16 Non-functional changes

Table 1 MMS Data Model 5.6 non-functional changes

MMS Data Model table	Change detail
None	

5 FAQs

This section is updated based on the participant queries from the MSUG meetings.

6 Implementation

6.1 Transition

See **Participant Impact**.

6.2 Upgrading

You can upgrade your pre-production or production Data Model environments once you receive the Data Model scripts. Applying the scripts sets up the new Data Model structure on your local database. You receive the same data until the new versions of fields, files, and reports are released into pre-production or production and you update your subscriptions.

For help, see:

- **Upgrading your DI environments**
- **Updating your subscriptions**:

6.3 Implications

To maintain systems in-line with AEMO's market systems, participants need to:

- Review and assess the impact on their market systems with respect to the changes implemented as part of this Release.
- Change their systems prior to the implementation of this Release.
- Schedule staff and resources to upgrade their market systems for the production implementation of this Release.

6.4 Risks

See **Participant Impact**.

7 Terms

7.1 Rules Terms

You can find the following terms defined in the **National Electricity Rules (NER)** and the **Settlements Residue Auction Rules**.

Term	Term
AEMO	
AEMO Markets Portal	
AEMO Website	
Directional interconnector	
Linked Bid	
Market Clearing Price	
Market Participants	
Maximum Units	
NEM	
National Interconnector	
Region	
Regional reference prices	
Registered Participant	
Trading Interval	
Trading Limit	
Trading Margin	
Trading Position	
Unit Category	
Unit	

7.2 Glossary

You can find a full list of AEMO glossary terms in **Industry Terminology** on AEMO's website.

Abbreviation/Term	Explanation
AEST	Australian Eastern Standard Time
B2B	Business-to-business
B2M	Business-to-market
EMMS	Electricity Market Management System; software, hardware, network and related processes to implement the wholesale energy market
FCAS	frequency control ancillary services
FTP	File transfer protocol
MSATS	Market Settlement and Transfer Solution for retail electricity
NER	National Electricity Rules
MW	Megawatt
Release	EMMS - Technical Specification - Data Model v5.6 - November 2025
Release Dates	Pre-production: Tuesday 14 October 2025 Production: Wednesday 19 November 2025
TBC	To be confirmed

8 References

Guide to AEMO's e-Hub APIs: Provides details about using AEMO's e-Hub as an interface to communicate information with AEMO. It assists Wholesale electricity and gas participants developing their own APIs.

Guide to Information Systems: Provides guidance for *Registered Participants* and interested parties about AEMO's participant electricity market systems.

Guide to User Rights Management: Assists participant administrators (PAs) to use the user rights management functions in the MSATS Web Portal.

Retail Electricity Market Glossary and Framework: assist participants of the Retail Electricity Market to understand the overall framework. It also contains a list of terms used in the Retail Electricity Market Procedures and a full list of NEM procedures, guidelines, and documents.

8.1 Data interchange and data model resources

8.1.1 About

Information about setting up a Data Interchange environment: Data Interchange Help > **About Data Interchange**.

8.1.2 Help

- **Data interchange online help**

8.1.3 Software

You can find Data Interchange software in the following locations:

- Data Interchange Help > **Software Releases**.
- Releases directory on the participant file share: FTP to 146.178.211.2 > Data Interchange, pdrBatcher, pdrLoader, or pdrMonitor.

8.1.4 Reports

- Data Interchange Help > **Data Model Reports**.

8.1.5 Releases

- Data Interchange Help > **Release Documents**.

9 Index