

EMMS - Technical Specification - Data Model v5.5 - April 2025

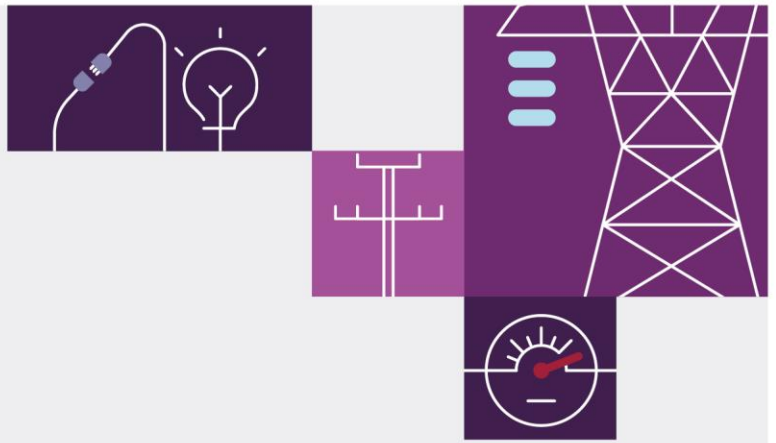
2.00~~1.04~~ April 2025

Pre-production: Tuesday 25 March 2025

Production: Tuesday 29 April 2025

Release series: EMMSDM290425





Important notice

Purpose & audience

This document describes the technical changes required to participant's systems for the EMMS - Technical Specification - Data Model v5.5 - April 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

2.00~~1.04~~ Initial creation. For details see [changes in this version](#).

Documents made obsolete

The release of this document changes only the version of EMMS - Technical Specification - Data Model v5.5 - April 2025.

Support Hub

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1 Introduction

1.1 Audience

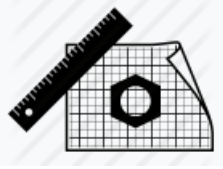
AEMO provides this information as a service targeting business analysts and IT staff in Registered Participant companies.

1.2 Objective

The EMMS - Technical Specification - Data Model v5.5 - April 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
<u>2.00</u>	<u>Final. The Data Model is available in Production.</u>
1.04	The Data Model design is ready for participant builds. The design is certified so no major changes are planned. However, there may be minor changes due to current testing.
1.03	The Data Model design is ready for participant builds. The design is certified so no major changes are planned. However, there may be minor changes due to current testing.
1.02	In progress. The design is not ready for participants' builds. Enhancing Reserve Information (ERI): Design complete estimation – 80% ST PASA Procedure and Recall Period: Design complete estimation – 80% Frequency Performance Payments (FPP) Settlements: Design complete estimation – 80%
1.01	In progress. The design is not ready for participants' builds. Enhancing Reserve Information (ERI): Design complete estimation – 75% ST PASA Procedure and Recall Period: Design complete estimation – 75% Frequency Performance Payments (FPP) Settlements: Design complete estimation – 75%
1.00	In progress. The design is not ready for participants' builds. Enhancing Reserve Information (ERI): Design complete estimation – 70% ST PASA Procedure and Recall Period: Design complete estimation – 70% Frequency Performance Payments (FPP) Settlements: Design complete estimation – 70%

Version	Status
0.01	 <p>Initial Draft for participants review. The design is not ready for participants' builds</p> <p>Presents the EMMS - Technical Specification - Data Model v5.5 - April 2025 evolving design.</p> <p>Please send feedback to digital.knowledge.management.team@aemo.com.au</p> <p>Enhancing Reserve Information (ERI): Design complete estimation – 65%</p> <p>ST PASA Procedure and Recall Period: Design complete estimation – 65%</p> <p>Frequency Performance Payments (FPP) Settlements: Design complete estimation – 65%</p>

1.4 Release dates

Scheduled for implementation in:

- Pre-production: Tuesday 25 March 2025
- Production: Tuesday 29 April 2025

1.5 Projects and enhancements

Changes and enhancements for this Release (v1.0504) include:

Project	Change	Affected interface	Reference
ERI	No changes in this release (v1.0504)	File interface	Data Model
ST PASA	No changes in this release (v1.0504)	File interface	Data Model
FPP Settlements	Updates in Discontinued Reports <u>and Participant Impact</u>	File interface	Data Model

1.5.1 Enhancing Reserve Information

The Enhancing Reserve Information (ERI) project aims to improve the transparency of energy available across the National Electricity Market (NEM). This enables participants to make more informed decisions, including when periods of tighter supply-demand balance are anticipated.

The following changes are introduced:

- Publish the previous trading day's 5-minute data for batteries.

- Publish the daily energy limits (total availability) for scheduled generators and bidirectional units (BDUs) that are not batteries.
- Publish the aggregated state of charge of batteries.
- For scheduled BDUs to provide the Maximum Storage Capacity value.

1.5.2 ST PASA Procedure and Recall Period

The ST PASA Procedure and Recall Period project aims to introduce greater flexibility to the short-term projected assessment of system adequacy (ST PASA).

The following changes are introduced:

- Add new bid Recall Period (associated with PASA availability) to bidding
- AEMO publishes forecasts of Available Capacity for scheduled generating units, semi-scheduled generating units, scheduled bidirectional units, scheduled wholesale demand response units and scheduled network services (MNSP) after each PDPASA and STPASAs run, as required under NER 3.7.3(k)(2).
- AEMO publishes forecasts of PASA Availability and associated Recall Period for scheduled generating units, scheduled bidirectional units, scheduled wholesale demand response units and scheduled network services (MNSP) after each PDPASA and STPASAs run, as required under NER 3.7.3(k)(3).
- Revisions to the definitions of energy constraint, wholesale demand response constraint, and PASA availability

1.5.3 Frequency Performance Payments (FPP) Settlements

Introduces a new system of incentives and penalties for generators and scheduled generators. Generators will either receive or be liable for payments. Incentives and penalties are based on whether they are helpful or unhelpful to system frequency.

1.6 Rule and procedure changes

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

Title	Project	Status	Effective
Enhancing reserve information (formerly Operating reserves)	ERI	Final	1 July 2025
Updating Short Term PASA	ST PASA	Final	31 July 2025
Primary Frequency Response Incentives rule change	FPP	In progress	8 June 2025
Frequency Contribution Factors Procedure	FPP	Final report	1 June 2023

1.7 Related technical specifications

Title	Project
EMMS - Technical Specification - July 1 2025	Enhancing Reserve Information (ERI)
EMMS - Technical Specification - July 31 2025	ST PASA Procedure and Recall Period

1.8 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	

1.9 Approval to change

AEMO request approval to proceed from all participant change controllers by close of business Thursday 21 November 2024.

1.10 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.

1.11 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.

1.12 Changes in this version

The changes in this version are:

- Data Model v5.5 is now available in Production.
- Updates to Participant Impact
- ~~FCAS Requirement Table Changes~~
- Updates ~~to Discontinued~~ Reports

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	Friday 14 February 2025	Final date for participant approval of this Release Published date + 15 business days from final release schedule						
Revised Technical Specification	TBC Friday 14 March 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 pre-production release, the technical specification is no longer updated, the related documents become the source of truth.						
Related Documents publication	Tuesday 25 March 2025	Release of guides and resources mentioned in <table><tr><th>Title</th><th>Project</th></tr><tr><td>EMMS - Technical Specification - July 1 2025</td><td>Enhancing Reserve Information (ERI)</td></tr><tr><td>EMMS - Technical Specification - July 31 2025</td><td>ST PASA Procedure and Recall Period</td></tr></table> Related on page 10	Title	Project	EMMS - Technical Specification - July 1 2025	Enhancing Reserve Information (ERI)	EMMS - Technical Specification - July 31 2025	ST PASA Procedure and Recall Period
Title	Project							
EMMS - Technical Specification - July 1 2025	Enhancing Reserve Information (ERI)							
EMMS - Technical Specification - July 31 2025	ST PASA Procedure and Recall Period							
Next MSUG meeting	Wednesday 4 June 2 April 2025	Market Systems User Group Meeting (MSUG) to review the technical specification and ask AEMO technical SMEs questions. This date is tentative. The project manager will provide an invitation one week prior to the meeting						
Pre-production Data Model auto subscription	25 March 2025 No auto-subscription for existing 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 25 March 2025	Participant Data Model scripts released						

Proposed Timeline

Milestone	Date	Description
Pre-production refresh	24 February 2025 – 28 February 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
Pre-production implementation	Tuesday 25 March 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 25 March 2025	Testing period begins for participants
Participant Testing	Tuesday 25 March 2025 – Tuesday 29 April 2025	Unstructured/bilateral participant testing in the pre-production environment
Production implementation	Tuesday 29 April 2025	AEMO implements the release to production
Production Data Model auto subscription	Tuesday 29 April 2025 No auto-subscription for existing 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	Tuesday 29 April 2025	Participant Data Model scripts released

3 Participant Impact

Participants wanting to receive the new and updated Data Model information in their Data Interchange environments must upgrade to the latest version of the Data Model 5.5.

3.1 Electricity data model v5.5

Participants wanting to receive the new Reports must upgrade to **EMMS Data Model v5.5**.

3.2 Data population dates

3.2.1 ST PASA Procedure and Recall Period

Pre-production: Wednesday 21 May 2025

Production: Thursday 31 July 2025

Please note that STPASA and PDPASA changes to add bid Recall Period are implemented on 1 July 2025. However, the change to the PDPASA and STPASA reports and the new PDPASA_AVAILABILITY and STPASA_AVAILABILITY reports will be implemented on 31 July 2025. We will notify participants before 1 July 2025 that any bids submitted without the Recall Period attribute will default to 24000.

3.2.2 ERI

Pre-production: Wednesday 21 May 2025

Production: Tuesday 1 July 2025

3.2.3 FPP Settlements

Pre-production: 2 February 2025

Production: 8 June 2025

File Interface Changes

Please note the new files in [File interface changes](#), SETTLEMENTS_INIT and BILLING_INIT~~INITIAL~~.

The INITIAL files capture a snapshot of participants’ current outstanding amounts for Settlements and Billing. Participants use these files to view their Current Outstanding, displayed in the Prudential Dashboard. The system populates these files at midnight.

The SETTLEMENTS_INIT and BILLING_INIT~~INITIAL~~ files follow the same table structure as SETTLEMENTS and BILLING files. These files are optional and will not be auto subscribed. Participants who wish to receive these files must manually subscribe.

FCAS Requirement Table Changes

Please note updates in [Discontinued Reports](#).

The FCAS requirement tables have changed in preparation for the FPP rule change commencing 8th June 2025 in production. Participants must move usage of FCAS requirement data from the old FCAS requirement tables to the new FCAS requirement tables published as part of Data Model v5.4. This was made available in production on 9 December 2024.

Old Table Name	Old File ID	New Table Names	New File ID
DISPATCH_FCAS_REQ	DISPATCHIS_FCAS	DISPATCH_FCAS_REQ_RUN DISPATCH_FCAS_REQ_CONSTRAINT	DISPATCHFCST
PREDISPATCH_FCAS_REQ	PREDISPATCHIS_FCAS	PD_FCAS_REQ_RUN PD_FCAS_REQ_CONSTRAINT	PREDISPATCHFCST
P5MIN_FCAS_REQUIREMENT	P5MIN_FCAS_REQUIREMENT	P5MIN_FCAS_REQ_RUN P5MIN_FCAS_REQ_CONSTRAINT	P5MINFCST

In the Data Model v5.5 release, Settlements will be performed on the new dispatch FCAS requirement tables. We will no longer maintain the old FCAS tables after 28 March 2025 in pre-production and 8 June 2025 in production.

NEXT DAY FPPMW Files

The NEXT DAY FPPMW files are split into two reports due to data volume. Participants subscribed to current NEXT DAY FPPMW files will be auto-subscribed to the other report NEXT DAY FPPMW 2.

SETTLEMENTS_EXTN report

The new SETTLEMENTS_EXTN report extends the existing SETTLEMENTS report and includes FPP Settlements data. This report will become available once ready and will not be auto-subscribed. Participants using the current SETTLEMENTS report will transition to its legacy version after upgrading to Data Model v5.5 to receive FPP settlement data. Participants must subscribe to both the SETTLEMENTS and SETTLEMENTS_EXTN reports.

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 v5.5, subscribe to the current files in **Data Subscription**. For help, see **Subscribe to Files**.

For help, see:

- **Unsubscribe from files**

3.4 Data Model Manager

Data Model v5.5 introduces a new feature embedding the pdrLoader mapping configuration as a resource within the Data Model package file. You require Data Model Manager v1.2 to apply this update, as earlier versions do not support this capability.

This enhancement allows the Data Model Manager to apply the configuration directly to the PDR_* tables as part of the upgrade process. It ensures environments not permanently connected to an AEMO system still receive the necessary updates, preventing missing configurations.

You must apply the pdrLoader mapping configuration manually using existing methodologies, if the PDR_* tables are not present or if your system is not connected to AEMO market systems.

Based on the pdrLoader mapping:

- If the configuration is already loaded, the Data Model Manager skips this step.
- If the configuration is partially loaded, the Data Model Manager fills in any missing data.

4 Electricity Data Model v5.5

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

This Release contains an updated version of the Electricity Data Model 5.5. This section describes the affected packages, tables, files, reports, and interfaces.

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4.2 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

4.2.1 Modified table: 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.
Visibility	Public
Data volume	Low
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	SETTLEMENTDATE, EXPOSTRUNNO

New columns

Field name	Data type	Primary key	Comment
METER_CASEID	NUMBER(5,0)	No	The Metering Case Id used for the Settlement Run. For Estimate Daily Run this will be 0



Field name	Data type	Primary key	Comment
METER_RUNTYPE	VARCHAR2(10)	No	The Type of Settlement Run (ESTIMATE/PRELIM/FINAL/REVISE)

4.2.2 New table: 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		
Visibility	Public		
Data volume	Low		
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run		
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports		
Primary key (in order)	SETTLEMENTDATE, VERSIONNO, INTERVAL_DATETIME		

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



Field name	Data type	Primary key	Comment
INTERVAL_DATETIME	DATE	Yes	The Interval Datetime for which a Clawback Run has been completed.
RUNNO	NUMBER(3,0)	No	The RunNo associated with the Clawback for the above interval date time.
CLAWBACK_DATE	DATE	No	The Date time the Clawback data has been loaded into the System for processing.
PREV_DATA_SOURCE	VARCHAR2(20)	No	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	No	The Last changed Date time of the record

4.2.3 New table: 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.
Visibility	Private
Data volume	Medium
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME, RUNNO, DUID



New columns

Field name	Data type	Primary key	Comment
INTERVAL_DATETIME	DATE	Yes	The Interval Datetime for which a the Clawback Run has been completed.
RUNNO	NUMBER(3,0)	Yes	The RunNo associated with the Clawback Run for the above interval date time.
DUID	VARCHAR2(20)	Yes	The DUID for which the Reduced MW has been applied for the FCAS Service.
LOWER1SEC	NUMBER(18,8)	No	The Clawback Volume for the LOWER1SEC Service. If this service is not affected in that Clawback then retain Prev Value.
LOWER5MIN	NUMBER(18,8)	No	The Clawback Volume for the LOWER5MIN Service. If this service is not affected in that Clawback then retain Prev Value.
LOWER60SEC	NUMBER(18,8)	No	The Clawback Volume for the LOWER60SEC Service. If this service is not affected in that Clawback then retain Prev Value.
LOWER6SEC	NUMBER(18,8)	No	The Clawback Volume for the LOWER6SEC Service. If this service is not affected in that Clawback then retain Prev Value.
RAISE1SEC	NUMBER(18,8)	No	The Clawback Volume for the RAISE1SEC Service. If this service is not affected in that Clawback then retain Prev Value.
RAISE5MIN	NUMBER(18,8)	No	The Clawback Volume for the RAISE5MIN Service. If this service is not affected in that Clawback then retain Prev Value.
RAISE60SEC	NUMBER(18,8)	No	The Clawback Volume for the RAISE60SEC Service. If this service is not affected in that Clawback then retain Prev Value.
RAISE6SEC	NUMBER(18,8)	No	The Clawback Volume for the RAISE6SEC Service. If this service is not affected in that Clawback then retain Prev Value.
LOWERREG	NUMBER(18,8)	No	The Clawback Volume for the LOWERREG Service. If this service is not affected in that Clawback then retain Prev Value.
RAISEREG	NUMBER(18,8)	No	The Clawback Volume for the RAISEREG Service. If this service is not affected in that Clawback then retain Prev Value.
LASTCHANGED	DATE	No	The Last Changed Date time of the record.



4.2.4 New table: SET_FCAS_CLAWBACK_REQ

Comment	This report contains the Interval Datetime affected by the Clawback Run and the adjusted FCAS requirement Costs.
Visibility	Public
Data volume	Medium
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME, RUNNO, CONSTRAINTID, REGIONID, BIDTYPE

New columns

Field name	Data type	Primary key	Comment
INTERVAL_DATETIME	DATE	Yes	The Interval Datetime for which a the Clawback Run has been completed.
RUNNO	NUMBER(3,0)	Yes	The RunNo associated with the Clawback Run for the above interval date time.
CONSTRAINTID	VARCHAR2(20)	Yes	The FCAS Constraint ID used in the FCAS Requirements.
REGIONID	VARCHAR2(20)	Yes	The Region ID associated with each Constraint Requirements
BIDTYPE	VARCHAR2(10)	Yes	The FCAS Service - DUID offered type
REGION_ENABLEMENT	NUMBER(18,8)	No	The Overridden Regional Enablement. SUM (FCAS MW) from FCAS.Clawback_Unitsolution
CONSTRAINT_ENABLEMENT	NUMBER(18,8)	No	How much is enabled for this bid Type within the constraint. Sum(Regional_Enablement) Group by Interval_Datetime, ConstraintId, BidType

Field name	Data type	Primary key	Comment
REGION_BASE_COST	NUMBER(18,8)	No	The Region Base Cost adjusted by the Regional Enablement Adj Ratio
BASE_COST	NUMBER(18,8)	No	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)	No	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)	No	P Regulation value is not affected by Clawback. This value is copied from Original Data source (DISPATCH)
PREV_REGION_ENABLEMENT	NUMBER(18,8)	No	The Regional Enablement before Override
PREV_CONSTRAINT_ENABLEMENT	NUMBER(18,8)	No	The Constraint Enablement before Override
PREV_REGION_BASE_COST	NUMBER(18,8)	No	The Region Base Cost before Override
PREV_BASE_COST	NUMBER(18,8)	No	The Base Cost before Override
PREV_ADJUSTED_COST	NUMBER(18,8)	No	The Adjusted Cost before override
LASTCHANGED	DATE	No	The Last Changed Date time of the record.

4.2.5 New table: SET_FCAS_REG_AMOUNT

Comment	This report contains the FCAS Regulation Amounts that include FPP Amounts, Used Amounts and Unused Amounts calculated using the Contribution Factors
Visibility	Private
Data volume	Medium

Comment	This report contains the FCAS Regulation Amounts that include FPP Amounts, Used Amounts and Unused Amounts calculated using the Contribution Factors
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	SETTLEMENTDATE, VERSIONNO,UNITID,CONSTRAINTID,PERIODID

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
UNITID	VARCHAR2(10)	Yes	The UNITID with CF factor assigned. This is a DUID or a TNI. Refer table FPP_CONTRIBUTION_FACTOR
CONSTRAINTID	VARCHAR2(20)	Yes	The FCAS Regulation Constraint ID
PERIODID	NUMBER(3,0)	Yes	The Period ID Identifier
PARTICIPANTID	VARCHAR2(20)	No	The Participant Id Identifier
BIDTYPE	VARCHAR2(10)	No	The BidType LOWERREG or RAISEREG for the Constraint ID
FPP_AMOUNT	NUMBER(18,8)	No	The FPP Amount calculated for the Constraint and UNITID using the FPP Contribution Factor
USED_AMOUNT	NUMBER(18,8)	No	The Regulation Used Recovery Amount from the eligible Units using Negative CF Value
UNUSED_AMOUNT	NUMBER(18,8)	No	The Regulation Unused Recovery Amount from Eligible Units using DCF Value



Field name	Data type	Primary key	Comment
LASTCHANGED	DATE	No	The Last Changed Date time of the record.

4.2.6 New table: SET_FCAS_REG_RESIDAMT

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	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports		
Primary key (in order)	SETTLEMENTDATE, VERSIONNO,PARTICIPANTID,CONSTRAINTID,PERIODID, REGIONID		

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 Participant Id Identifier

Field name	Data type	Primary key	Comment
CONSTRAINTID	VARCHAR2(20)	Yes	The FCAS Regulation Constraint ID
PERIODID	NUMBER(3,0)	Yes	The Period ID Identifier
REGIONID	VARCHAR2(20)	Yes	The RegionId used for the residual calculation. This is the Constraint Requirement Region.
BIDTYPE	VARCHAR2(10)	No	The BidType LOWERREG or RAISEREG for the Constraint ID
ACE_MWH	NUMBER(18,8)	No	The ACE MWh value that is used for the Residual Calculation.(Excluding CPID with CF)
ASOE_MWH	NUMBER(18,8)	No	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)	No	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)	No	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)	No	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)	No	Sum of FPP_ACE_Amount + FPP_ASOE_Amount
USED_ACE_AMOUNT	NUMBER(18,8)	No	The Used Recovery ACE Amount calculated using the ACE MWh value of the requirement regions.
USED_ASOE_AMOUNT	NUMBER(18,8)	No	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)	No	The Used Residual Amount is Same as Used_ACE_Amount
UNUSED_ACE_AMOUNT	NUMBER(18,8)	No	The Unused Recovery ACE Amount calculated using the portion of ACE MWh value against the Total residual MWh of the requirement regions.



Field name	Data type	Primary key	Comment
UNUSED_ASOE_AMOUNT	NUMBER(18,8)	No	The Unused Recovery ASOE Amount is always 0 as FCAS Regulation Residual is calculated using ACE MWh values only.
UNUSED_RESIDUAL_AMOUNT	NUMBER(18,8)	No	The Unused Residual Amount is Same as Unused_ACE_Amount
LASTCHANGED	DATE	No	The Last Changed Date time of the record.

4.2.7 New table: SET_FCAS_REG_DEF_AMT

Comment	This report contains 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.
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,UNITID,CONSTRAINTID,PERIODID



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
UNITID	VARCHAR2(10)	Yes	The UnitId with CF factor assigned. This is a DUID or a TNI. Refer table FPP_CONTRIBUTION_FACTOR
CONSTRAINTID	VARCHAR2(20)	Yes	The FCAS Regulation Constraint ID
PERIODID	NUMBER(3,0)	Yes	The Period ID Identifier
PARTICIPANTID	VARCHAR2(20)	No	The Participant Id Identifier
BIDTYPE	VARCHAR2(10)	No	The BidType LOWERREG or RAISEREG for the Constraint ID
UNUSED_AMOUNT	NUMBER(18,8)	No	The Regulation Unused Recovery Amount from Eligible Units using DCF Value
LASTCHANGED	DATE	No	The Last Changed Date time of the record.

4.2.8 New table: SET_FCAS_REG_DEF_RESIDAMT

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



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
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	SETTLEMENTDATE, VERSIONNO,PARTICIPANTID,CONSTRAINTID,PERIODID, REGIONID

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 Participant Id Identifier
CONSTRAINTID	VARCHAR2(20)	Yes	The FCAS Regulation Constraint ID
PERIODID	NUMBER(3,0)	Yes	The Period ID Identifier
REGIONID	VARCHAR2(20)	Yes	The RegionId used for the residual calculation. This is the Constraint Requirement Region.
BIDTYPE	VARCHAR2(10)	No	The BidType LOWERREG or RAISEREG for the Constraint ID
ACE_MWH	NUMBER(18,8)	No	The ACE MWh value that is used for the Residual Calculation.(Excluding CPID with CF)
ASOE_MWH	NUMBER(18,8)	No	The ASOE MWh value that is used for the 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. This is not used in calculation at the moment. This is only used for FPP Residual



Field name	Data type	Primary key	Comment
UNUSED_ACE_AMOUNT	NUMBER(18,8)	No	The Unused Recovery ACE Amount calculated using the ACE MWh value of the requirement regions.
UNUSED_ASOE_AMOUNT	NUMBER(18,8)	No	The Unused Recovery ASOE Amount is always 0 as FCAS Reg Residual is recovered from ACE MWh Only
UNUSED_RESIDUAL_AMOUNT	NUMBER(18,8)	No	The Unused Residual Amount is same as Unused ACE Amount.
LASTCHANGED	DATE	No	The Last Changed Date time of the record.

4.2.9 New table: SET_FPP

Comment	This report contains the summary of FPP Amounts for each ParticipantId in each region
Visibility	Private
Data volume	Medium
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	SETTLEMENTDATE, VERSIONNO,PARTICIPANTID,REGIONID,PERIODID

New columns

Field name	Data type	Primary key	Comment
SETTLEMENTDATE	DATE	Yes	The Settlement Date of the Billing Week

Field name	Data type	Primary key	Comment
VERSIONNO	NUMBER(3,0)	Yes	The Settlement Run No
PARTICIPANTID	VARCHAR2(20)	Yes	The Participant Id Identifier
REGIONID	VARCHAR2(20)	Yes	The RegionId used for the residual calculation. This is the Constraint Requirement Region.
PERIODID	NUMBER(3,0)	Yes	The Period ID Identifier
LOWERREG_AMOUNT	NUMBER(18,8)	No	The LowerReg Amount from the Eligible Units.
LOWERREG_ACE_AMOUNT	NUMBER(18,8)	No	The LowerReg Amount from the ACE Portion of the Residual amount
LOWERREG_ASOE_AMOUNT	NUMBER(18,8)	No	The LowerReg Amount from the ASOE Portion of the Residual amount
LOWERREG_RESIDUAL_AMOUNT	NUMBER(18,8)	No	The Lower Reg Residual Amount which is also LowerReg_ACE_Amount + LowerReg_ASOE_Amount
RAISEREG_AMOUNT	NUMBER(18,8)	No	The RaiseReg Amount from the Eligible Units.
RAISEREG_ACE_AMOUNT	NUMBER(18,8)	No	The RaiseReg Amount from the ACE Portion of the Residual amount
RAISEREG_ASOE_AMOUNT	NUMBER(18,8)	No	The RaiseReg Amount from the ASOE Portion of the Residual amount
RAISEREG_RESIDUAL_AMOUNT	NUMBER(18,8)	No	The Raise Reg Residual Amount which is also RaiseReg_ACE_Amount + RaiseReg_ASOE_Amount
LASTCHANGED	DATE	No	The Last Changed Date time of the record.



4.2.10 Modified table: SET_FCAS_REGULATION_TRK

Comment	This report shows FCAS Regulation Service Constraint tracking for Regional FCAS Regulation recovery
Visibility	Public
Data volume	Medium
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	SETTLEMENTDATE, VERSIONNO, INTERVAL_DATETIME, CONSTRAINTID

New columns

Field name	Data type	Primary key	Comment
FPP_AMOUNT	NUMBER(18,8)	No	The total FPP Amount from Eligible Units for the Constraint Id
FPP_RESIDUAL_AMOUNT	NUMBER(18,8)	No	The total FPP Residual Amount for the Constraint Id
USED_AMOUNT	NUMBER(18,8)	No	The total Reg Used Amount from Eligible Units for the Constraint Id
USED_RESIDUAL_AMOUNT	NUMBER(18,8)	No	The total Reg Used Residual Amount for the Constraint Id
UNUSED_AMOUNT	NUMBER(18,8)	No	The total Reg Unused Amount from Eligible Units for the Constraint Id
UNUSED_RESIDUAL_AMOUNT	NUMBER(18,8)	No	The total Reg Unused Residual Amount for the Constraint Id
P_REGULATION	NUMBER(18,8)	No	The PRegulation Value from Constraints FCAS Requirement data
TSFCAS	NUMBER(18,8)	No	The Adjusted Cost Value from Constraints FCAS Requirement data



Field name	Data type	Primary key	Comment
RCR	NUMBER(18,8)	No	The RCR Value from the FPP Inputs for the Constraint Id used to calculate FPP Amount
USAGE_VALUE	NUMBER(18,8)	No	The Usage Value from the FPP Inputs for the Constraint Id used to calculate Used Amount
RCF	NUMBER(18,8)	No	The RCF Value from the FPP Inputs for the Constraint Id used to calculate FPP Residual
NRCF	NUMBER(18,8)	No	The NRCF Value from the FPP Inputs for the Constraint Id used to calculate Used Residual Amount
DRCF	NUMBER(18,8)	No	The DRCF Value from the FPP Inputs for the Constraint Id used to calculate Unused Residual Amount
RESIDUALTOTAL_MWH	NUMBER(18,8)	No	The total residual MWh($ABS(ACE_MWh) + ASOE(MWh)$) of the requirement regions.

Modified columns

Comment Changes Only

Field name	Data type	Primary key	Comment
CMPF	NUMBER(18,8)	No	Constraint Market Participant Factor. This column is NULL for Settlement Dates past FPP Rule Effective Date
CRMPF	NUMBER(18,8)	No	Constraint Residual Market Participant Factor. This column is NULL for Settlement Dates past FPP Rule Effective Date
RECOVERY_FACTOR_CMPF	NUMBER(18,8)	No	Recovery factor for CMPF based recovery. This column is NULL for Settlement Dates past FPP Rule Effective Date
RECOVERY_FACTOR_CRMPF	NUMBER(18,8)	No	Recovery factor for CRMPF based recovery. This column is NULL for Settlement Dates past FPP Rule Effective Date.



4.2.11 Modified table: SET_FCAS_RECOVERY

Comment	This report shows reimbursements for the Frequency Control Ancillary Services (FCAS) to be recovered from participants
Visibility	Private
Data volume	Medium
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	SETTLEMENTDATE, VERSIONNO,PARTICIPANTID,REGIONID,PERIODID

New columns

Field name	Data type	Primary key	Comment
LOWERREG_ASOE	NUMBER(18,8)	No	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)	No	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)	No	The LowerReg Used amount for the Participant and Region
RAISEREG_USED	NUMBER(18,8)	No	The RaiseReg Used amount for the Participant and Region
LOWERREG_UNUSED	NUMBER(18,8)	No	The LowerReg Unused amount for the Participant and Region
RAISEREG_UNUSED	NUMBER(18,8)	No	The RaiseReg Unused amount for the Participant and Region
LOWERREG_USED_ACE	NUMBER(18,8)	No	The LowerReg Used ACE Portion amount for the Participant and Region

Field name	Data type	Primary key	Comment
LOWERREG_USED_ASOE	NUMBER(18,8)	No	The LowerReg Used ASOE Portion amount for the Participant and Region
LOWERREG_USED_RESIDUAL	NUMBER(18,8)	No	The LowerReg Used Residual amount for the Participant and Region (LowerReg_Used_ACE + LowerReg_Used_ASOE)
RAISEREG_USED_ACE	NUMBER(18,8)	No	The RaiseReg Used ACE Portion amount for the Participant and Region
RAISEREG_USED_ASOE	NUMBER(18,8)	No	The RaiseReg Used ASOE Portion amount for the Participant and Region
RAISEREG_USED_RESIDUAL	NUMBER(18,8)	No	The RaiseReg Used Residual amount for the Participant and Region RaiseReg_Used_ACE + RaiseReg_Used_ASOE
LOWERREG_UNUSED_ACE	NUMBER(18,8)	No	The LowerReg Unused ACE Portion amount for the Participant and Region
LOWERREG_UNUSED_ASOE	NUMBER(18,8)	No	The LowerReg Unused ASOE Portion amount for the Participant and Region
LOWERREG_UNUSED_RESIDUAL	NUMBER(18,8)	No	The LowerReg Unused Residual amount for the Participant and Region LowerReg_Unused_ACE + LowerReg_Unused_ASOE
RAISEREG_UNUSED_ACE	NUMBER(18,8)	No	The RaiseReg Unused ACE Portion amount for the Participant and Region
RAISEREG_UNUSED_ASOE	NUMBER(18,8)	No	The RaiseReg Unused ASOE Portion amount for the Participant and Region
RAISEREG_UNUSED_RESIDUAL	NUMBER(18,8)	No	The RaiseReg Unused Residual amount for the Participant and Region RaiseReg_Unused_ACE + RaiseReg_Unused_ASOE

Modified columns

Comment Changes Only

Field name	Data type	Primary key	Comment
LOWERREG_RECOVERY	NUMBER(18,8)	No	<p>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.</p> <p>For Settlement Dates past FPP Rule Effective Dates this column will be NULL.</p>
RAISEREG_RECOVERY	NUMBER(18,8)	No	<p>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.</p> <p>For Settlement Dates past FPP Rule Effective Dates this column will be NULL.</p>
LOWERREG_ACE	NUMBER(18,8)	No	<p>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.</p> <p>For Settlement dates past FPP Rule Effective date this column will be LOWERREG_USED_ACE + LOWERREG_UNUSED_ACE</p>
RAISEREG_ACE	NUMBER(18,8)	No	<p>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.</p> <p>For Settlement dates past FPP Rule Effective date this column will be RAISEREG_USED_ACE + RAISEREG_UNUSED_ACE</p>



4.2.12 Modified table: SET_NMAS_RECOVERY (comment changes heading only)

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.
Visibility	Private
Data volume	
Trigger	Settlement Run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport
Primary key (in order)	CONTRACTID PARTICIPANTID PAYMENTTYPE PERIODID REGIONID SERVICE SETTLEMENTDATE VERSIONNO

4.2.13 Modified table: SET_NMAS_RECOVERY_RBF (comment changes heading only)

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.
Visibility	Public
Data volume	



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.
Trigger	Settlement Run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport
Primary key (in order)	CONTRACTID PAYMENTTYPE PERIODID REGIONID SERVICE SETTLEMENTDATE VERSIONNO

4.2.14 Modified table: SETLSHEDPAYMENT (comment changes heading only)

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.
Visibility	Private
Data volume	
Trigger	Settlement Run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport



Comment	<p>SETLSHEDPAYMENT shows specific payment details for load shed services by period.</p> <p>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.</p>		
Primary key (in order)	CONTRACTID	PARTICIPANTID	PERIODID
	SETTLEMENTDATE	VERSIONNO	

4.2.15 Modified table: SETRPOWERPAYMENT (comment changes heading only)

Comment	<p>SETRPOWERPAYMENT shows specific payment details for Reactive power services by period.</p> <p>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.</p>		
Visibility	Private		
Data volume			
Trigger	Settlement Run		
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport		
Primary key (in order)	CONTRACTID	PARTICIPANTID	PERIODID
	SETTLEMENTDATE	VERSIONNO	



4.3 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.

4.3.1 New table: BILLING_FCAS_REG_AMT

Comment	This report show the summary of the Billing run FCAS Regulation Amounts incl default amounts.		
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)	CONTRACTYEAR, WEEKNO,BILLRUNNO,PARTICIPANTID,UNITID,CONSTRAINTID, CONNECTIONPOINTID, REGIONID		

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

Field name	Data type	Primary key	Comment
PARTICIPANTID	VARCHAR2(20)	Yes	The Participant Id Identifier
UNITID	VARCHAR2(20)	Yes	The UnitId for which a FPP Factor is assigned
CONSTRAINTID	VARCHAR2(20)	Yes	The FCAS Reg Constraint Id
CONNECTIONPOINTID	VARCHAR2(20)	Yes	The ConnectionPointId from Settlement Results for the UnitId
REGIONID	VARCHAR2(20)	Yes	The Region Id Identifier
BIDTYPE	VARCHAR2(10)	No	The BidType for the Constraint Id
FPP_AMOUNT	NUMBER(18,8)	No	The FPP Amount for the Participant and the Unit
USED_AMOUNT	NUMBER(18,8)	No	The FCAS Regulation Used Amount for the Participant and the Unit
UNUSED_AMOUNT	NUMBER(18,8)	No	The FCAS Regulation Unused Amount for the Participant and the Unit
LASTCHANGED	DATE	No	The Lastchanged datetime of the record.

4.3.2 New table: BILLING_FCAS_REG_RESIDAMT

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



Comment	This report show the summary of the Billing run FCAS Regulation Residual Amounts incl default amounts
Primary key (in order)	CONTRACTYEAR, WEEKNO,BILLRUNNO,PARTICIPANTID,CONSTRAINTID,REGIONID

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 Participant Id Identifier
CONSTRAINTID	VARCHAR2(20)	Yes	The FCAS Reg Constraint Id
REGIONID	VARCHAR2(20)	Yes	The Region Id Identifier
BIDTYPE	VARCHAR2(10)	No	The BidType for the Constraint Id
ACE_MWH	NUMBER(18,8)	No	The ACE MWh used for the Residual Calculation for the Participant
ASOE_MWH	NUMBER(18,8)	No	The ASOE MWh used for the Residual Calculation of the Participant
RESIDUAL_MWH	NUMBER(18,8)	No	Sum of ACE_MWH + ASOE_MWH
FPP_ACE_AMOUNT	NUMBER(18,8)	No	The FPP ACE Portion Amount for the Billing Week
FPP_ASOE_AMOUNT	NUMBER(18,8)	No	The FPP ASOE Portion Amount for the Billing Week



Field name	Data type	Primary key	Comment
FPP_RESIDUAL_AMOUNT	NUMBER(18,8)	No	The FPP Residual Amount for the Billing Week
USED_ACE_AMOUNT	NUMBER(18,8)	No	The Used ACE Portion Amount for the Billing Week
USED_ASOE_AMOUNT	NUMBER(18,8)	No	The Used ASOE Portion Amount for the Billing Week
USED_RESIDUAL_AMOUNT	NUMBER(18,8)	No	The Used Residual Amount for the Billing Week
UNUSED_ACE_AMOUNT	NUMBER(18,8)	No	The Unused ACE Portion Amount for the Billing Week
UNUSED_ASOE_AMOUNT	NUMBER(18,8)	No	The Unused ASOE Portion Amount for the Billing Week
UNUSED_RESIDUAL_AMOUNT	NUMBER(18,8)	No	The Unused Residual Amount for the Billing Week
LASTCHANGED	DATE	No	The Lastchanged datetime of the record.

4.3.3 New table: BILLING_FPP

Comment	This report show the summary of the Billing run FPP Amounts for the week
Visibility	Private
Data volume	Medium
Trigger	Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	CONTRACTYEAR, WEEKNO,BILLRUNNO,PARTICIPANTID,REGIONID



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 Participant Id Identifier
REGIONID	VARCHAR2(20)	Yes	The Region Id Identifier
LOWERREG_AMOUNT	NUMBER(18,8)	No	The Lower Reg Service FPP Amount for the Participant and the Region for the Billing Week
LOWERREG_ACE_AMOUNT	NUMBER(18,8)	No	The Lower Reg Service FPP ACE Residual Amount for the Participant and the Region for the Billing Week
LOWERREG_ASOE_AMOUNT	NUMBER(18,8)	No	The Lower Reg Service FPP ASOE Residual Amount for the Participant and the Region for the Billing Week
LOWERREG_RESIDUAL_AMOUNT	NUMBER(18,8)	No	Sum of LOWERREG_ACE_AMOUNT + LOWERREG_ASOE_AMOUNT
RAISEREG_AMOUNT	NUMBER(18,8)	No	The Raise Reg Service FPP Amount for the Participant and the Region for the Billing Week
RAISEREG_ACE_AMOUNT	NUMBER(18,8)	No	The Raise Reg Service FPP ACE Residual Amount for the Participant and the Region for the Billing Week
RAISEREG_ASOE_AMOUNT	NUMBER(18,8)	No	The Raise Reg Service FPP ASOE Residual Amount for the Participant and the Region for the Billing Week
RAISEREG_RESIDUAL_AMOUNT	NUMBER(18,8)	No	RAISEREG_ACE_AMOUNT + RAISEREG_ASOE_AMOUNT
LASTCHANGED	DATE	No	The Lastchanged datetime of the record.



4.3.4 Modified table: BILLINGASRECOVERY

Comment	This report shows participant charges for Ancillary Services for the billing period. This view shows the billing amounts for Ancillary Service Recovery.
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)	CONTRACTYEAR, WEEKNO,BILLRUNNO,PARTICIPANTID,REGIONID

New columns

Field name	Data type	Primary key	Comment
LOWERREG_USED	NUMBER(18,8)	No	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)	No	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)	No	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)	No	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)	No	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



Field name	Data type	Primary key	Comment
LOWERREG_USED_ASOE	NUMBER(18,8)	No	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)	No	LOWERREG_USED_ACE + LOWERREG_USED_ASOE
RAISEREG_USED_ACE	NUMBER(18,8)	No	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)	No	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)	No	RAISEREG_USED_ACE + RAISEREG_USED_ASOE
LOWERREG_UNUSED_ACE	NUMBER(18,8)	No	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)	No	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)	No	LOWERREG_UNUSED_ACE + LOWERREG_UNUSED_ASOE
RAISEREG_UNUSED_ACE	NUMBER(18,8)	No	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)	No	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)	No	RAISEREG_UNUSED_ACE + RAISEREG_UNUSED_ASOE



Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
LOWERREG	NUMBER(18,8)	No	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)	No	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.

4.3.5 Modified table: BILLING_NMAS_TST_PAYMENTS (comment changes heading only)

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.
Visibility	Private
Data volume	
Trigger	Billing Run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport



Comment	<p>BILLING_NMAS_TEST_PAYMENTS publish the NSCAS/SRAS Testing Payments data for a posted billing week.</p> <p>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.</p>	
Primary key (in order)	BILLRUNNO CONTRACTID CONTRACTYEAR PARTICIPANTID SERVICE WEEKNO	

4.3.6 Modified table: BILLING_NMAS_TST_RECOVERY (comment changes heading only)

Comment	<p>BILLING_NMAS_TEST_RECOVERY sets out the recovery of NMAS testing payments</p> <p>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.</p>	
Visibility	Private	
Data volume		
Trigger	Billing Run	
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport	



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.		
Primary key (in order)	BILLRUNNO	CONTRACTID	CONTRACTYEAR
	PARTICIPANTID	REGIONID	SERVICE
	WEEKNO		

4.3.7 Modified table: BILLING_NMAS_TST_RECVR_Y_TRK (comment changes heading only)

Comment	BILLING_NMAS_TEST_RECVR_Y_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.		
Visibility	PUBLIC		
Data volume			
Trigger	Billing Run		
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport		
Primary key (in order)	BILLRUNNO	CONTRACTYEAR	RECOVERY_BILLRUNNO
			RECOVERY_CONTRACTYEAR
			RECOVERY_WEEKNO
			WEEKNO



4.4 Package: DISPATCH

Results from a published Dispatch Run

4.4.1 Modified table: 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.
Visibility	Public
Data volume	Medium
Trigger	DISPATCHREGIONSUM updates every 5 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVREPORTS
Primary key (in order)	DISPATCHINTERVAL, INTERVENTION, REGIONID, RUNNO, SETTLEMENTDATE

New columns

Field name	Data type	Primary Key	Comment
BDU_INITIAL_ENERGY_STORAGE	NUMBER(15,5)	No	Energy Storage for BDU at the start of the interval (MWh) – Region Aggregated
DECGEN_INITIAL_ENERGY_STORAGE	NUMBER(15,5)	No	Energy storage for Daily Energy Constrained Scheduled Generating Units at the start of the interval (MWh) - Region Aggregated



4.4.2 Modified table: 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
Visibility	Private, Public Next-Day
Data volume	Medium
Trigger	DISPATCHLOAD shows data for every 5 minutes for all units, even zero targets.
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVREPORTS
Primary key (in order)	DUID, INTERVENTION, RUNNO, SETTLEMENTDATE

Modified columns

Comment changes only

Field name	Data type	Primary Key	Comment
INITIAL_ENERGY_STORAGE	NUMBER(15,5)	No	The energy storage at the start of this dispatch interval (MWh)
ENERGY_STORAGE	NUMBER(15,5)	No	The projected energy storage based on cleared energy and regulation FCAS dispatch (MWh)



4.5 Package: P5MIN

Results from a published Five-Minute Predispatch Run

4.5.1 Modified table: P5MIN_REGIONSOLUTION

Comment	The five-minute predispach (P5Min) is a MMS system providing projected dispatch for 12 Dispatch cycles (one hour). The 5-minute Predispach 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.
Visibility	Public
Data volume	Medium
Trigger	P5MIN_REGIONSOLUTION updates every 5 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVREPORTS
Primary key (in order)	INTERVAL_DATETIME, REGIONID, RUN_DATETIME

New columns

Field name	Data type	Primary Key	Comment
BDU_INITIAL_ENERGY_STORAGE	Number(15,5)	No	Energy Storage for BDU at the start of the interval (MWh) – Region Aggregated
DECGEN_INITIAL_ENERGY_STORAGE	Number(15,5)	No	Energy storage for Daily Energy Constrained Scheduled Generating Units at the start of the interval (MWh) - Region Aggregated



4.5.2 Modified table: P5MIN_UNITSOLUTION

Comment	The five-minute predispach (P5Min) is a MMS system providing projected dispatch for 12 Dispatch cycles (one hour). The 5-minute Predispach 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.
Visibility	Private
Data volume	Medium
Trigger	P5MIN_UNITSOLUTION updates every 5 minutes for all units, even zero targets.
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVREPORTS
Primary key (in order)	DUID, INTERVAL_DATETIME, RUN_DATETIME

Modified columns

Comment changes only

Field name	Data type	Primary Key	Comment
INITIAL_ENERGY_STORAGE	NUMBER(15,5)	No	The energy storage at the start of this dispatch interval (MWh)
ENERGY_STORAGE	NUMBER(15,5)	No	The projected energy storage based on cleared energy and regulation FCAS dispatch (MWh)



4.6 Package: PRE_DISPATCH

Results from a published 30 minutes Pre-dispatch Run

4.6.1 Modified table: 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
Visibility	Private, Public Next-Day
Data volume	Medium
Trigger	Own (confidential) data updates every thirty minutes, with whole market data for the day before available as part of next day market data.
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVREPORTS
Primary key (in order)	DATETIME, DUID

Modified columns

Comment changes only

Field name	Data type	Primary Key	Comment
INITIAL_ENERGY_STORAGE	NUMBER(15,5)	No	The energy storage at the start of this dispatch interval (MWh)
ENERGY_STORAGE	NUMBER(15,5)	No	The projected energy storage based on cleared energy and regulation FCAS dispatch (MWh)



4.6.2 Modified table: PREDISPATCHREGIONSUM

Comment	PREDISPATCHREGIONSUM sets out the overall regional Pre-Dispatch results for base case details (excluding price).		
Visibility	Public		
Data volume	Medium		
Trigger	PREDISPATCHREGIONSUM updates every thirty minutes.		
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVREPORTS		
Primary key (in order)	DATETIME, REGIONID		

New columns

Field name	Data type	Primary Key	Comment
BDU_INITIAL_ENERGY_STORAGE	NUMBER(15,5)	No	Energy Storage for BDU at the start of the interval (MWh) – Region Aggregated
DECGEN_INITIAL_ENERGY_STORAGE	NUMBER(15,5)	No	Energy storage for Daily Energy Constrained Scheduled Generating Units at the start of the interval (MWh) - Region Aggregated

4.7 Package: PD7DAY

Results from a published Predispatch 7 Day Run



4.7.1 Modified table: PD7DAY_PRICESOLUTION

Comment	PD7DAY price solution
Visibility	Public
Data volume	Medium
Trigger	PD7DAY publishes few times per day
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVREPORTS
Primary key (in order)	RUN_DATETIME,INTERVAL_DATETIME,REGIONID,INTERVENTION

New columns

Field name	Data type	Primary Key	Comment
BDU_INITIAL_ENERGY_STORAGE	NUMBER(15,5)	No	Energy Storage for BDU at the start of the interval (MWh) – Region Aggregated
DECGEN_INITIAL_ENERGY_STORAGE	NUMBER(15,5)	No	Energy storage for Daily Energy Constrained Scheduled Generating Units at the start of the interval (MWh) - Region Aggregated

4.8 Package: BIDS

Energy and Market Based FCAS Offers



4.8.1 Modified table: BIDOFFERPERIOD

Comment	BIDOFFERPERIOD shows 5-minute period-based Energy and Ancillary Service bid data.BIDOFFERPERIOD is a child table of BIDDAYOFFER
Visibility	Public
Data volume	Large
Trigger	BIDOFFERPERIOD data is published whenever new bid data arrives.
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVREPORTS
Primary key (in order)	TRADINGDATE, BIDTYPE, DUID, OFFERDATETIME, DIRECTION, PERIODID

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

4.8.2 Modified table: 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 SMS Bids.
Visibility	
Data volume	



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.
Trigger	Generated as submissions are processed in next-day reports
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVREPORTS
Primary key (in order)	LINKID,OFFERDATETIME,PERIODID,TRADINGDATE

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

4.9 Package: FPP

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.



4.9.1 Modified table: FPP_UNIT_MW

Comment	This report delivers the curated 4 second measurement MW data for each FPP unit
Visibility	Private at the completion of FPP calculation run for a closed trading interval (i.e. every 5 minutes) Public from next market day (at a time after 4am market time)
Data volume	Large
Trigger	The private report delivers at the completion of a FPP calculation run for a closed trading interval (i.e. every 5 minutes) The public report delivers the next market day (at a time after 4am market time)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME, MEASUREMENT_DATETIME, FPP_UNITID, VERSIONNO

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
MW_QUALITY_FLAG	NUMBER(5)	NO	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)



4.9.2 Modified table: FPP_PERFORMANCE

Comment	This report delivers the calculated performance value for each 5 minute trading interval for each FPP unit
Visibility	Private at the completion of FPP calculation run for a closed trading interval (i.e. every 5 minutes) Public from next market day (at a time after 4am market time)
Data volume	Medium
Trigger	The private report delivers at the completion of a FPP calculation run for a closed trading interval (i.e. every 5 minutes) The public report delivers the next market day (at a time after 4am market time)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME,FPP_UNITID, VERSIONNO

Comment changes only

4.9.3 Modified table: FPP_REGION_FREQ_MEASURE

Comment	This report delivers the curated 4 second frequency deviation and frequency measure data for each region
Visibility	Public
Data volume	Medium
Trigger	At the completion of a FPP calculation run for a closed trading interval (i.e. every 5 minutes)



Comment	This report delivers the curated 4 second frequency deviation and frequency measure data for each region
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME, MEASUREMENT_DATETIME, REGIONID, VERSIONNO

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
HZ_QUALITY_FLAG	NUMBER(5)	NO	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)



4.9.4 Modified table: FPP_CONTRIBUTION_FACTOR

Comment	This report delivers the calculated contribution factor value for each 5 minute trading interval for each constraint and FPP unit
Visibility	Private at the completion of FPP calculation run for a closed trading interval (i.e. every 5 minutes) Public from next market day (at a time after 4am market time)
Data volume	Medium
Trigger	The private report will be delivered at the completion of a FPP calculation run for a closed trading interval (i.e. every 5 minutes) The public report will be delivered the next market day (at a time after 4am market time)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME, CONSTRAINTID, FPP_UNITID, VERSIONNO

Modified columns

Field name	Data type	Primary key	Comment
SETTLEMENTS_UNITID	VARCHAR2(50)	NO	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.



4.9.5 Modified table: FPP_FORECAST_DEFAULT_CF

Comment	This report delivers the forecast default contribution factors (DCF) effective for a billing period (aligned to the settlement week)
Visibility	Public
Data volume	Medium
Trigger	Approval of a FPP historical default contribution factor calculation run (i.e. every week)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	FPP_UNITID, CONSTRAINTID, EFFECTIVE_START_DATETIME, EFFECTIVE_END_DATETIME, VERSIONNO

Modified columns

Field name	Data type	Primary key	Comment
SETTLEMENTS_UNITID	VARCHAR2(50)	NO	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.

4.9.6 Modified table: 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.
Visibility	Private



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.
Data volume	Large
Trigger	At the completion of a P5MIN estimation calculation run (i.e. every 5 mins)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, RUNNO, INTERVAL_DATETIME, CONSTRAINTID, FPP_UNITID, VERSIONNO

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
EST_UNUSED_FCAS	NUMBER(18,8)	NO	<p>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.</p> <p>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.</p>



4.9.7 Modified table: 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.
Visibility	Public
Data volume	Large
Trigger	At the completion of a P5MIN estimation calculation run (i.e. every 5 mins)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, RUNNO, INTERVAL_DATETIME, CONSTRAINTID, VERSIONNO

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
EST_UNUSED_FCAS	NUMBER(18,8)	NO	<p>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.</p> <p>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.</p>



4.9.8 Modified table: 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.
Visibility	Private
Data volume	Medium
Trigger	At the completion of a PREDISPATCH estimation calculation run (i.e. every 30 mins)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	PREDISPATCHSEQNO, RUN_DATETIME, RUNNO, INTERVAL_DATETIME, CONSTRAINTID, FPP_UNITID, VERSIONNO

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
EST_UNUSED_FCAS	NUMBER(18,8)	NO	<p>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.</p> <p>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 predispach 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.</p>

4.9.9 Modified table: 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.
Visibility	Public
Data volume	Medium
Trigger	At the completion of a PREDISPATCH estimation calculation run (i.e. every 30 minutes)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	PREDISPATCHSEQNO, RUN_DATETIME, RUNNO, INTERVAL_DATETIME, CONSTRAINTID, VERSIONNO



Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
EST_UNUSED_FCAS	NUMBER(18,8)	NO	<p>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.</p> <p>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 predispach 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.</p>

4.9.10 Modified table: FPP_RUN

Comment	This report delivers details of the 5-minute FPP calculation engine success failure outcome saved in FPP database
Visibility	Public
Data volume	Low
Trigger	At the completion of a FPP calculation run for a closed trading interval (i.e. every 5 minutes)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME, VERSIONNO



Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
RUN_STATUS	VARCHAR2(20)	NO	The status of FPP_RUN at the time the data model extract report was run. Typical value is Completed

4.9.11 New table: 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
Visibility	Public
Data volume	Medium
Trigger	Approval of a FPP historical performance calculation run (i.e. every week)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	REGIONID, EFFECTIVE_START_DATETIME, EFFECTIVE_END_DATETIME, VERSIONNO



New columns

Field name	Data type	Primary key	Comment
REGIONID	VARCHAR2(20)	YES	Region ID of the historical region performance
EFFECTIVE_START_DATETIME	DATE	YES	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	YES	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)	YES	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	NO	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	NO	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)	NO	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)	NO	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



Field name	Data type	Primary key	Comment
FPP_HIST_RAISE_PERFORMANCE	NUMBER(18,5)	NO	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)	NO	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

4.9.12 Modified table: FPP_USAGE

Comment	This report delivers the calculated usage for each constraint for each 5 minute trading interval
Visibility	Public
Data volume	Medium
Trigger	At the completion of a FPP calculation run for a closed trading interval (i.e. every 5 minutes)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME, CONSTRAINTID, VERSIONNO

Modified columns

Comment changes only



Field name	Data type	Primary key	Comment
USAGE_REASON_FLAG	NUMBER(5)	NO	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
USAGE_VALUE	NUMBER(18,8)	NO	Usage (calculation of the proportion of regulation FCAS that was calculated to be used)

4.9.13 Modified table: 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)
Visibility	Public
Data volume	Medium
Trigger	At the completion of a FPP calculation run for a closed trading interval (i.e. every 5 minutes)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, RUNNO, INTERVAL_DATETIME, CONSTRAINTID, VERSIONNO

Modified columns

Column rename from USAGE to USAGE_VALUE as USAGE is reserved word



Field name	Data type	Primary key	Comment
USAGE_VALUE	VARCHAR2(20)	NO	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.

4.10 Package: STPASA_SOLUTION

Results from a published Short Term PASA Run.

4.10.1 New Table: 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		
Visibility	Public		
Data volume	Medium		
Trigger	Start of each STPASA run (every hour)		
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports		
Primary key (in order)	RUN_DATETIME, INTERVAL_DATETIME, DUID		



New Columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Nominal start time of the run
INTERVAL_DATETIME	DATE	Yes	Half hour ended interval
DUID	VARCHAR2(20)	Yes	NEM Dispatchable Unit Identifier
GENERATION_MAX_AVAILABILITY	NUMBER (12,6)	No	Available Capacity for a scheduled generating unit, semi-scheduled generating unit, BDU (Gen side), WDR or MNSP.
GENERATION_PASA_AVAILABILITY	NUMBER (12,0)	No	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)	No	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)	No	Available Capacity for a scheduled load or BDU (Load side).
LOAD_PASA_AVAILABILITY	NUMBER (12,0)	No	PASA Availability for a scheduled load or BDU (Load side).
LOAD_RECALL_PERIOD	NUMBER (8,3)	No	Recall Period associated with the PASA Availability for a scheduled load or BDU (Load side).
LASTCHANGED	DATE	No	The Last changed Date time of the record



4.10.2 Modified table: 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.
Visibility	Public
Data volume	Large
Trigger	Start of each STPASA run (every hour)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME, REGIONID, RUN_DATETIME, RUNTYPE

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
AGGREGATEPASAavailability	NUMBER(12)	No	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)	Yes	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.



4.11 Package: PDPASA

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.

4.11.1 New Table: 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
Visibility	Public
Data volume	Medium
Trigger	Close to or start of PDPASA run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, INTERVAL_DATETIME, DUID

New Columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	First half hour ended interval of the run

Field name	Data type	Primary key	Comment
INTERVAL_DATETIME	DATE	Yes	Half hour ended interval
DUID	VARCHAR2(20)	Yes	NEM Dispatchable Unit Identifier
GENERATION_MAX_AVAILABILITY	NUMBER (12,6)	No	Available Capacity for a scheduled generating unit, semi-scheduled generating unit, BDU (Gen side), WDR or MNSP.
GENERATION_PASA_AVAILABILITY	NUMBER (12,0)	No	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)	No	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)	No	Available Capacity for a scheduled load or BDU (Load side).
LOAD_PASA_AVAILABILITY	NUMBER (12,0)	No	PASA Availability for a scheduled load or BDU (Load side).
LOAD_RECALL_PERIOD	NUMBER (8,3)	No	Recall Period associated with the PASA Availability for a scheduled load or BDU (Load side).
LASTCHANGED	DATE	No	The Last changed Date time of the record

4.11.2 Modified table: PDPASA_REGIONSOLUTION

Comment	The PDPASA region solution data
Visibility	Public
Data volume	Medium



Comment	The PDPASA region solution data
Trigger	PDPASA_REGIONSOLUTION is updated each PDPASA run (i.e. half-hourly)
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME, REGIONID, RUN_DATETIME, RUNTYPE

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
AGGREGATEPASAavailability	NUMBER(12)	No	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)	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.

4.12 Package: DEMAND_FORECASTS

Regional Demand Forecasts and Intermittent Generation forecasts.



4.12.1 Modified table: INTERMITTENT_GEN_FCST_DATA

Comment	Stores the forecast generation (MW) for each interval within a given forecast of an intermittent generator.
Visibility	Private
Data volume	Medium
Trigger	Every 30 minutes when AEMO issues a new 30-minute forecast of wind generation out to 8 days ahead
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	DUID, INTERVAL_DATETIME, RUN_DATETIME

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
POWERPOELOW	NUMBER(9,3)	No	90% probability of exceedance forecast value in MW at the interval end
POWERPOEHIGH	NUMBER(9,3)	No	10% probability of exceedance forecast value in MW at the interval end

4.12.2 Modified table: ROOFTOP_PV_FORECAST

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



Comment	Regional forecasts of Rooftop Solar generation across the half-hour intervals over 8 days
Data volume	Medium
Trigger	Every 30 minutes over 8 days
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME, REGIONID, VERSION_DATETIME

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
POWERPOELOW	NUMBER(12,3)	No	90% probability of exceedance forecast value in MW at the interval end
POWERPOEHIGH	NUMBER(12,3)	No	10% probability of exceedance forecast value in MW at the interval end



4.13 Package: ANCILLARY_SERVICES

4.13.1 Modified table: CONTRACTLOADSHED (comment changes to heading only)

Comment	<p>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.</p> <p>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.</p>
Visibility	Private
Data volume	
Trigger	Settlement run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport
Primary key (in order)	CONTRACTID VERSIONNO

4.13.2 Modified table: CONTRACTREACTIVEPOWER (comment changes heading only)

Comment	<p>CONTRACTREACTIVEPOWER shows Reactive Power contract details used in the settlement and dispatch of this service.</p> <p>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.</p>
Visibility	Private
Data volume	



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.
Trigger	Settlement run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport
Primary key (in order)	CONTRACTID VERSIONNO

4.14 Package: ASOFFER

4.14.1 Modified table: OFFERLSHEDDATA (comment changes heading only)

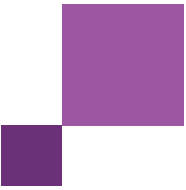
Comment	OFFERLSHEDDATA shows reoffers of load shed including available load shed quantity. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.
Visibility	Private
Data volume	
Trigger	Settlement run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport



Comment	<p>OFFERLSHEDDATA shows reoffers of load shed including available load shed quantity.</p> <p>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.</p>		
Primary key (in order)	CONTRACTID		
	EFFECTIVEDATE		
	PERIODID		
	VERSIONNO		

4.14.2 Modified table: OFFERPOWERDATA (comment changes heading only)

Comment	<p>OFFERRPOWERDATA shows reoffers of reactive power capability and settlement measurements.</p> <p>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.</p>		
Visibility	Private		
Data volume			
Trigger	Settlement run		
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport		
Primary key (in order)	CONTRACTID		
	EFFECTIVEDATE		
	PERIODID		
	VERSIONNO		



4.15 File interface changes

Package	File ID	Description	Batcher file masks	Frequency	Modification	Auto-subscription
SETTLEMENT_DATA	SETTLEMENTS		*_SETTLEMENTS_*.CSV	Daily	Modified	
SETTLEMENT_DATA	SETTLEMENTSEXT		*_SETTLEMENTSEXT_*.CSV	Daily	New	Yes
BILLING_RUN	BILLING		*_BILLING_*.CSV	Weekly	Modified	
SETTLEMENT_DATA	SETTLEMENTS_INIT	Settlement Results from an INITIAL Run processed using the INITIAL Meter data AEMO receive.	*_SETTLEMENTS_INIT*.CSV	Daily	New	No
BILLING_RUN	BILLING_INIT	Billing Results from an INITIAL Run.	*_BILLING_INIT*.CSV	Daily	New	No
P5MIN	P5MIN		*_P5MIN_*.CSV	5 minutes	Modified	
PRE_DISPATCH	PREDISPATCHIS		*_PREDISPATCHIS_*.CSV	30 minutes	Modified	
DISPATCH	DISPATCH		*_DISPATCHIS_*.CSV	5 minutes	Modified	
BIDS	BIDOFFERFILETRK		*_BID_*.CSV		Modified	
BIDS	NEM_BIDS		*_NEM_BIDS_*.CSV		Modified	
BIDS	BID_MNSP		*_BID_MNSP_*.CSV		Modified	
PD7DAY	PD7DAY		*_PD7DAY_*.CSV		Modified	



Package	File ID	Description	Batcher file masks	Frequency	Modification	Auto-subscription
FPP	FPP_UNIT		*_FPP_UNIT_*.CSV	5 minutes	Modified	
	FPP_RUN		*_FPP_RUN_*.CSV	5 minutes	Modified	
	NEXT_DAY_FPP		*_NEXT_DAY_FPP_*.CSV	Daily	Modified	No
	NEXT_DAY_FPPMW		*_NEXT_DAY_FPPMW_*.CSV	Daily	Modified	No
	NEXT_DAY_FPPMW_2		*_NEXT_DAY_FPPMW2_*.CSV	Daily	New (split delivery of NEXT_DAY_FPPMW)	No (participants that are currently subscribed to NEXT_DAY_FPPMW will be automatically subscribed to NEXT_DAY_FPPMW_2)
	FPP_DCF		*_FPP_DCF_*.CSV	Weekly	Modified	
	FPP_HIST_REGION_PERFORMANCE		*_FPP_HIST_REGION_PERFORMANCE_*.CSV	Weekly	New	Yes
	FPP_PRIV_P5MIN_EST		*_FPP_PRIV_P5MIN_EST_*.CSV	5 minutes	Modified	
	FPP_P5MIN_RESID_EST		*_FPP_P5MIN_RESID_EST_*.CSV	5 minutes	Modified	
	FPP_PRIV_PD_EST		*_FPP_PRIV_PD_EST_*.CSV	30 minutes	Modified	
	FPP_PD_RESID_EST		*_FPP_PD_RESID_EST_*.CSV	30 minutes	Modified	



4.16 Participant interfaces changes

Package	Data model table	File ID	CSV report type	Change
SETTLEMENT_DATA	DAYTRACK	SETTLEMENTS	SETTLEMENTS,DAYTRACK,7	Modified
	SET_FCAS_CLAWBACK_RUN_TRK	SETTLEMENTSEXT	SETTLEMENTS,FCAS_CLAWBACK_TRK,1	New
	SET_FCAS_CLAWBACK_UNITSOLN	SETTLEMENTSEXT	SETTLEMENTS,FCAS_CLAWBACK_UNITSOL,1	New
	SET_FCAS_CLAWBACK_REQ	SETTLEMENTSEXT	SETTLEMENTS,FCAS_CLAWBACK_REQ,1	New
	SET_FCAS_REG_AMOUNT	SETTLEMENTSEXT	SETTLEMENTS,FCAS_REG_AMT,1	New
	SET_FCAS_REG_RESIDAMT	SETTLEMENTSEXT	SETTLEMENTS,FCAS_REG_RESIDAMT,1	New
	SET_FCAS_REG_DEF_AMT	SETTLEMENTSEXT	SETTLEMENTS,FCAS_REG_DEF_AMT,1	New
	SET_FCAS_REG_DEF_RESIDAMT	SETTLEMENTSEXT	SETTLEMENTS,FCAS_REG_DEF_RESIDAMT,1	New
	SET_FPP	SETTLEMENTSEXT	SETTLEMENTS,FPP,1	New
	SET_FCAS_REGULATION_TRK	SETTLEMENTS	SETTLEMENTS,SET_FCAS_REGULATION_TRK,3	Modified
	SET_FCAS_RECOVERY	SETTLEMENTS	SETTLEMENTS,FCAS_RECOVERY,9	Modified
BILLING_RUN	BILLING_FCAS_REG_AMT	BILLING	BILLING, FCAS_REG_AMT, 1	New
	BILLING_FCAS_REG_RESIDAMT	BILLING	BILLING, FCAS_REG_RESIDAMT, 1	New
	BILLING_FPP	BILLING	BILLING, FPP, 1	New
	BILLINGASRECOVERY	BILLING	BILLING, ASRECOVERY,10	Modified



Package	Data model table	File ID	CSV report type	Change
P5MIN	P5MIN_REGIONSOLUTION	P5MIN	P5MIN,REGIONSOLUTION,10	Modified
	P5MIN_UNITSOLUTION	P5MIN	P5MIN,UNITSOLUTION,6	Modified
PRE_DISPATCH	PREDISPATCHLOAD	PREDISPATCHIS	PREDISPATCH,UNIT_SOLUTION,4	Modified
	PREDISPATCHREGIONSUM	PREDISPATCHIS	PREDISPATCH,REGION_SOLUTION,9	Modified
DISPATCH	DISPATCHLOAD	DISPATCHIS	DISPATCH,UNIT_SOLUTION,5	Modified
	DISPATCHREGIONSUM	DISPATCHIS	DISPATCH,REGIONSUM,9	Modified
BIDS	BIDOFFERPERIOD	BIDOFFERFILETRK	BIDS,BIDOFFERPERIOD,3	Modified
	BIDOFFERPERIOD	NEM_BIDS	BIDS,BIDOFFERPERIOD,3	Modified
	MNSP_BIDOFFERPERIOD	NEM_BIDS	BIDS,MNSPBIDOFFERPERIOD,2	Modified
	MNSP_BIDOFFERPERIOD	BID_MNSP	BIDS,MNSPBIDOFFERPERIOD,2	Modified
PD7DAY	PD7DAY_PRICESOLUTION	PD7DAY	PD7DAY,PRICESOLUTION,2	Modified
FPP	FPP_CONTRIBUTION_FACTOR	FPP_UNIT	FPP,CONTRIBUTION_FACTOR,2	Modified
	FPP_CONTRIBUTION_FACTOR	NEXT_DAY_FPP	FPP,CONTRIBUTION_FACTOR,2	Modified
	FPP_RUN	FPP_RUN	FPP,FPP_RUN,2	Modified
	FPP_FORECAST_DEFAULT_CF	FPP_DCF	FPP,FORECAST_DEFAULT_CF,2	Modified
	FPP_HIST_REGION_PERFORMANCE	FPP_HIST_REGION_PERFORMANCE	FPP,FPP_HIST_REGION_PERFORMANCE,1	New
	FPP_UNIT_MW	NEXT_DAY_FPPMW	FPP,FPP_UNIT_MW,2	Modified

Package	Data model table	File ID	CSV report type	Change
	FPP_UNIT_MW	NEXT_DAY_FPPMW_2	FPP,FPP_UNIT_MW,2	New (split delivery of file id NEXT_DAY_FPPMW)
	FPP_P5_FWD_EST_COST	FPP_PRIV_P5MIN_EST	FPP,P5_FWD_EST_COST,2	Modified
	FPP_P5_FWD_EST_RESIDUALRATE	FPP_P5MIN_RESID_EST	FPP,P5_FWD_EST_RESIDUALRATE,2	Modified
	FPP_PD_FWD_EST_COST	FPP_PRIV_PD_EST	FPP,PD_FWD_EST_COST,2	Modified
	FPP_PD_FWD_EST_RESIDUALRATE	FPP_PD_RESID_EST	FPP,PD_FWD_EST_RESIDUALRATE,2	Modified
STPASA_SOLUTION	STPASA_DUIDAVAILABILITY	STPASA	STPASA, DUIDAVAILABILITY, 1	New
	STPASA_REGIONSOLUTION	STPASA	STPASA, REGIONSOLUTION, 8	Modified
PDPASA	PDPASA_DUIDAVAILABILITY	PDPASA	PDPASA, DUIDAVAILABILITY, 1	New
	PDPASA_REGIONSOLUTION	PDPASA	PDPASA, REGIONSOLUTION, 8	Modified

4.17 Discontinued reports

Data model table	File ID	Delivered in file	CSV report type	Replaced by
SETCPDATA	SETTLEMENTS	*_SETTLEMENTS_*.CSV	SETTLEMENTS,CPDATA,7	SETTLEMENTS, SET_ENERGY_TRANSACTIONS,1
SETGENDATA	SETTLEMENTS	*_SETTLEMENTS_*.CSV	SETTLEMENTS,GENDATA,6	SETTLEMENTS,SET_ENERGY_GENSET_DETAIL,1

Data model table	File ID	Delivered in file	CSV report type	Replaced by
SETSMALLGENDATA	SETTLEMENTS	*_SETTLEMENTS_*.CSV	SETTLEMENTS,SMALLGENDATA,1	SETTLEMENTS,SET_ENERGY_TRANSACTIONS,1
SETFCASREGIONRECOVERY	SETTLEMENTS	*_SETTLEMENTS_*.CSV	SETTLEMENTS,FCASREGIONRECOVERY,5	SETTLEMENTS,FCASREGIONRECOVERY,6
SET_FCAS_RECOVERY	SETTLEMENTS	*_SETTLEMENTS_*.CSV	SETTLEMENTS,FCAS_RECOVERY,7	SETTLEMENTS,FCAS_RECOVERY,8
SETINTRAREGIONRESIDUES	SETTLEMENTS	*_SETTLEMENTS_*.CSV	SETTLEMENTS,INTRAREGIONRESIDUES,5	SETTLEMENTS,INTRAREGIONRESIDUES,6
SET_NMAS_RECOVERY	SETTLEMENTS	*_SETTLEMENTS_*.CSV	SETTLEMENTS,NMAS_RECOVERY,2	SETTLEMENTS,NMAS_RECOVERY,3
SETMARKETFEEES	SETTLEMENTS	*_SETTLEMENTS_*.CSV	SETTLEMENTS,MARKETFEEES,6	SETTLEMENTS,MARKETFEEES,7
DISPATCH_FCAS_REQ	DISPATCHIS_FCAS	*_DISPATCHIS_FCAS_*.CSV	DISPATCHIS_FCAS,DISPATCH_FCAS_REQ,3	DISPATCH_FCAS_REQ_RUN and DISPATCH_FCAS_REQ_CONSTRAINT Note that decommissioning of the old FCAS_REQ report will only be effective from after June 2025
DISPATCH_FCAS_REQ	DISPATCHIS_FCAS_LEGACY	*_DISPATCHIS_FCAS_*.CSV	DISPATCHIS_FCAS_LEGACY,DISPATCH_FCAS_REQ,3	DISPATCH_FCAS_REQ_RUN and DISPATCH_FCAS_REQ_CONSTRAINT Note that decommissioning of the old FCAS_REQ report will only be effective from after June 2025



Data model table	File ID	Delivered in file	CSV report type	Replaced by
PREDISPATCH_FCAS_REQ	PREDISPATCHIS_FCAS	*_PREDISPATCHIS_FCAS_*.CSV	PREDISPATCHIS_FCAS,PREDISPATCH_FCAS_REQ,2	PD_FCAS_REQ_RUN and PD_FCAS_REQ_CONSTRAINT Note that decommissioning of the old FCAS_REQ report will only be effective from after June 2025
PREDISPATCH_FCAS_REQ	PREDISPATCHIS_FCAS_LEGACY	*_PREDISPATCHIS_FCAS_*.CSV	PREDISPATCHIS_FCAS_LEGACY,PREDISPATCH_FCAS_REQ,2	PD_FCAS_REQ_RUN and PD_FCAS_REQ_CONSTRAINT Note that decommissioning of the old FCAS_REQ report will only be effective from after June 2025
P5MIN_FCAS_REQUIREMENT	P5MIN_FCAS_REQUIREMENT	*_P5MIN_FCAS_REQUIREMENT_*.CSV	P5MIN_FCAS_REQUIREMENT,P5MIN_FCAS_REQUIREMENT,1	P5MIN_FCAS_REQ_RUN and P5MIN_FCAS_REQ_CONSTRAINT Note that decommissioning of the old FCAS_REQ report will only be effective from after June 2025
BILLING_APC_RECOVERY	BILLING	*_BILLING_*.CSV	BILLING,APC_RECOVERY,2	BILLING,APC_RECOVERY,3
BILLRESERVETRADERRECOVERY	BILLING	*_BILLING_*.CSV	BILLING, RESERVETRADERRECOVERY,2	BILLING,RESERVETRADERRECOVERY,3
BILLINGASRECOVERY	BILLING	*_BILLING_*.CSV	BILLING,ASRECOVERY,8	BILLING,ASRECOVERY,9
DISPATCHLOAD	DISPATCHIS	*_DISPATCHIS_*.CSV	DISPATCHIS,UNIT_SOLUTION,4	DISPATCHIS,UNIT_SOLUTION,5
DISPATCHREGIONSUM	DISPATCHIS	*_DISPATCHIS_*.CSV	DISPATCHIS,REGIONSUM,7	DISPATCHIS,REGIONSUM,8
P5MIN_REGIONSOLUTION	P5MIN	*_P5MIN_*.CSV	P5MIN,REGIONSOLUTION,8	P5MIN,REGIONSOLUTION,9



Data model table	File ID	Delivered in file	CSV report type	Replaced by
P5MIN_UNITSOLUTION	P5MIN	*_P5MIN_*.CSV	P5MIN,UNITSOLUTION,5	P5MIN,UNITSOLUTION,6
PREDISPATCHLOAD	PREDISPATCHIS	*_PREDISPATCHIS_*.CSV	PREDISPATCHIS,UNIT_SOLUTION,3	PREDISPATCHIS,UNIT_SOLUTION,4
PREDISPATCHREGIONSUM	PREDISPATCHIS	*_PREDISPATCHIS_*.CSV	PREDISPATCHIS,REGION_SOLUTION,7	PREDISPATCHIS,REGION_SOLUTION,8
BIDDAYOFFER	BIDOFFERFILETRK	*_BIDOFFERFILETRK_*.CSV	BIDOFFERFILETRK,BIDDAYOFFER,2	BIDOFFERFILETRK,BIDDAYOFFER,3
STAPASA_REGIONSOLUTION	STPASA	*_STPASA_*.CSV	STPASA,REGIONSOLUTION,6	STPASA,REGIONSOLUTION,7
PDPASA_REGIONSOLUTION	PDPASA	*_PDPASA_*.CSV	PDPASA,REGIONSOLUTION,6	PDPASA,REGIONSOLUTION,7

5 Reports

5.1 Settlement report (SR)

Market Ancillary Service Transactions - Recovery

Service Provided	Used Amount (\$)	Unused Amount (\$)	Used Residual Amount (\$)	Unused Residual Amount (\$)	ACE Amount (\$)	ASOE Amount (\$)	Total Amount (\$)
Very Fast raise	\$0.00	\$0.00	\$0.00	\$0.00	-\$8.12	-\$112.34	-\$120.47
Very Fast lower	\$0.00	\$0.00	\$0.00	\$0.00	-\$0.10	-\$1.29	-\$1.39
Fast raise	\$0.00	\$0.00	\$0.00	\$0.00	-\$5.84	-\$10,062.58	-\$10,068.42
Fast lower	\$0.00	\$0.00	\$0.00	\$0.00	-\$0.09	-\$4.54	-\$4.63
Slow raise	\$0.00	\$0.00	\$0.00	\$0.00	-\$4.03	-\$4,037.48	-\$4,041.50
Slow lower	\$0.00	\$0.00	\$0.00	\$0.00	-\$0.06	-\$2.92	-\$2.98
Delayed raise	\$0.00	\$0.00	\$0.00	\$0.00	-\$6.46	-\$1,360.23	-\$1,366.69
Delayed lower	\$0.00	\$0.00	\$0.00	\$0.00	-\$1.42	-\$78.38	-\$79.80
Regulation raise	-\$0.62	-\$0.85	\$0.00	-\$51.36	-	-	-\$52.83
Regulation lower	\$0.00	-\$0.93	\$0.00	-\$0.01	-	-	-\$0.95
Total Recovery(Payment to AEMO)	-\$0.62	-\$1.78	\$0.00	-\$51.37	-\$26.12	-\$15,659.77	-\$15,739.66

The Settlement Report (SR) contains a modified section. The ACE Amount (\$) and ASOE Amount (\$) columns are not application for Regulation services. For Regulation Services, the Residual is calculated using ACE MWh and this amount is written in the column Used/Unused Residual Amount. For Regulation Services, the ACE Amount and ASOE Amount will be (-).

The new SETTLEMENTS_EXTN report extends the existing SETTLEMENTS report and includes FPP Settlements data. This report will become available once ready and will not be auto-subscribed. Participants using the current SETTLEMENTS report will transition to its legacy version after upgrading to Data Model v5.5 to receive FPP settlement data. Participants must subscribe to both the SETTLEMENTS and SETTLEMENTS_EXTN reports.

6 FAQs

6.1 Do participants need to manually subscribe to the new PREDISPATCH and P5MIN FPP tables in production?

No, the new PREDISPATCH and P5MIN FPP tables are auto-subscribed. Since the pre-dispatch and P5MIN tables are new tables that were defined as part of 5.4 data model release, they are automatically subscribed and will be delivered once the data population date is effective in production. However note, the FPP_UNIT_MW data for FPP delivered through the NEXT_DAY file was excluded from auto-subscription due to its large data volume. For this exception, participants have the option to opt in.

6.2 Why don't the new FPP tables contain a last change field?

The underlying FPP data model is different to the historical registrations data model, however is an insert only data model facilitated through the incrementing version numbers.

6.3 When will the Frequency Performance Payments (FPP) changes start affecting settlements?

The update introduces changes to the billing tables, but data will not start flowing into them until the FPP rules becomes effective on 8th June. Until then, no new settlement data related to these changes will be published.

6.4 Are there any plans around releasing more documentation about the FPP calculations?

There are a number of current sources of information already published on the FPP calculations, supplementing the existing published FPP procedure, including watch on demand video training / information sessions, which participants have found helpful in approaching the technically complex FPP calculations. Any participants with questions are encouraged to engage with the FPP team through industry forums run under NEM reform for immediate assistance.

6.5 Will the sub-regional (area) Rooftop PV data be added to the MMS Data Model?

Yes, in new tables introduced in Data Model 5.6, expected in November 2025. Until then, the sub-regional data is found in NEMweb and the Data Interchange as non-data model reports.

7 Implementation

7.1 Transition

See [Participant Impact](#).

7.2 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](#)

7.3 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.

7.4 Risks

See [Participant Impact](#).

8 Terms

8.1 Rules Terms

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

Terms

Term
AEMO
AEMO Markets Portal
AEMO Website
Baseline

Term
Market Participants
NEM
NER
Product

Term
Region
Registered Participant

8.2 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
EMMS	Electricity Market Management System; software, hardware, network and related processes to implement the wholesale energy market
ERI	Enhancing Reserve Information
FCAS	frequency control ancillary services
FPP	Frequency Performance Payments. Introduces a new system of incentives and penalties for generators and scheduled generators
FTP	File transfer protocol
MW	Megawatt
Release	EMMS - Technical Specification - Data Model v5.5 - April 2025
Release Dates	Pre-production: Tuesday 25 March 2025 Production: Tuesday 29 April 2025
ST PASA	Short term projected assessment of system adequacy
TBC	To be confirmed

9 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.

9.1 Data interchange and data model resources

9.1.1 About

Information about setting up a Data Interchange environment: Data Interchange Help > [About Data Interchange](#).

9.1.2 Help

- [Data interchange online help](#)

9.1.3 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.

9.1.4 Reports

- Data Interchange Help > [Data Model Reports](#).

9.1.5 Releases

- Data Interchange Help > [Release Documents](#).

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