

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

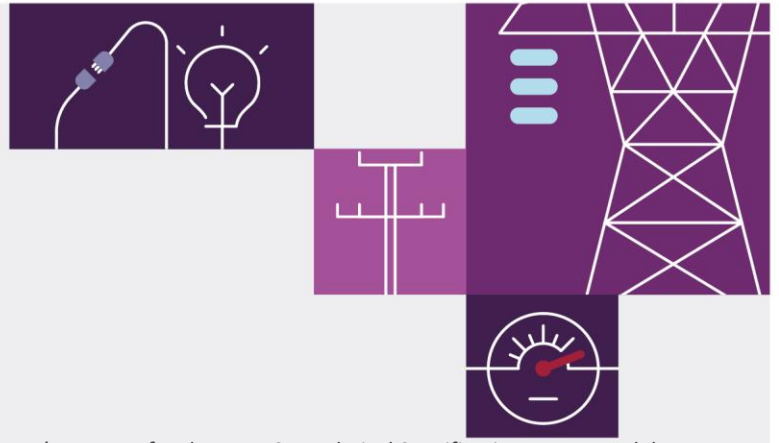
1.04~~1.03~~ March 2025

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

Last update: Tuesday, 25 March 2025 11:17 AM

## Version History

~~1.041-03~~ 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.

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# 1 Introduction

## 1.1 Audience

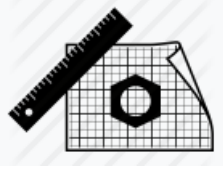
AEMO provides this information as a service targeting business analysts and IT staff in Registered Participant companies.

## 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>1.04</u> | <u>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.</u>   |
| 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.<br><br>Enhancing Reserve Information (ERI): Design complete estimation – 80%<br>ST PASA Procedure and Recall Period: Design complete estimation – 80%<br>Frequency Performance Payments (FPP) Settlements: Design complete estimation – 80% |
| 1.01        | In progress. The design is not ready for participants' builds.<br><br>Enhancing Reserve Information (ERI): Design complete estimation – 75%<br>ST PASA Procedure and Recall Period: Design complete estimation – 75%<br>Frequency Performance Payments (FPP) Settlements: Design complete estimation – 75% |
| 1.00        | In progress. The design is not ready for participants' builds.<br><br>Enhancing Reserve Information (ERI): Design complete estimation – 70%<br>ST PASA Procedure and Recall Period: Design complete estimation – 70%<br>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 <a href="mailto:digital.knowledge.management.team@aemo.com.au">digital.knowledge.management.team@aemo.com.au</a></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 include:

| Project                | Change  | Affected interface | Reference  |
|------------------------|---|--------------------|------------|
| <b>ERI</b>             | No changes  | File interface     | Data Model |
| <b>ST PASA</b>         | No changes  | File interface     | Data Model |
| <b>FPP Settlements</b> | Updates FPP_USAGE and FPP_FCAS_SUMMARY tables. Update to Settlement Report (SR) | 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    |
|---|---------|--------------|--------------|
| <a href="#">Enhancing reserve information (formerly Operating reserves)</a> | ERI     | Final        | 1 July 2025  |
| <a href="#">Updating Short Term PASA</a>                                    | ST PASA | Final        | 31 July 2025 |
| <a href="#">Primary Frequency Response Incentives rule change</a>           | FPP     | In progress  | 8 June 2025  |
| <a href="#">Frequency Contribution Factors Procedure</a>                    | FPP     | Final report | 1 June 2023  |

## 1.7 Related technical specifications

| Title   | Project                             |
|---|-------------------------------------|
| <a href="#">EMMS - Technical Specification - July 1 2025</a>  | Enhancing Reserve Information (ERI) |
| <a href="#">EMMS - Technical Specification - July 31 2025</a> | 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                                     |
|--|--|---|
| <a href="#">Data Interchange Online Help</a> | Help for participants using Data Interchange and the Data Model                  | See Release Dates in <a href="#">Timeline</a> |
| <a href="#">Data Model Reports</a>           | Explains the packages, tables and reports in the Electricity and Gas Data Models |   |
| <a href="#">Release Documents</a>            | 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:

- ~~Minor updates to SETTLEMENT\_DATA tables~~
- ~~Minor updates to FPP tables~~
- ~~Updates to File Interface Changes~~
- Updates to Participant Impact~~Interface Changes~~
- FCAS Requirement Table Changes
- ~~Updates to Discontinued Reports~~
- ~~Updates to 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<br><br>Published date + 15 business days from final release schedule  |       |         |  |                                     |   |                                     |
| Revised Technical Specification               | 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.<br><br>From the pre-production release, the technical specification is no longer updated, the <a href="#">related documents</a> become the source of truth.   |       |         |  |                                     |   |                                     |
| Related Documents publication                 | Tuesday 25 March 2025   | Release of guides and resources mentioned in <table border="1" data-bbox="963 1128 1458 1496"> <thead> <tr> <th>Title</th> <th>Project</th> </tr> </thead> <tbody> <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> </tbody> </table><br>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 2 April 2025  | Market Systems User Group Meeting (MSUG) to review the technical specification and ask AEMO technical SMEs questions.<br><br>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<br><br>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   |
|--|---|---|
| <b>Pre-production refresh</b>                  | 24 February 2025 – 28 February 2025<br>See <a href="#">pre-production refresh</a> | 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 |
| <b>Pre-production implementation</b>           | Tuesday 25 March 2025   | AEMO implements components of the Release to pre-production for participant testing<br><br>AEMO has full access to the system during this period<br><br>Participant access is not restricted; however, the data content or system availability is not guaranteed  |
| <b>Pre-production available</b>                | Tuesday 25 March 2025   | Testing period begins for participants  |
| <b>Participant Testing</b>                     | Tuesday 25 March 2025 – Tuesday 29 April 2025                                     | Unstructured/bilateral participant testing in the pre-production environment  |
| <b>Production implementation</b>               | Tuesday 29 April 2025   | AEMO implements the release to production   |
| <b>Production Data Model auto subscription</b> | Tuesday 29 April 2025<br>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   |
| <b>Production Data Model release</b>           | 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: ~~1-April~~ 2 February 2025

Production: 8 June 2025

## File Interface Changes

Please note the new files in [File interface changes](#), SETTLEMENTS\_INIT and BILLING\_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\_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 8<sup>th</sup> 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.](#)

| <u>Old Table Name</u>                  | <u>Old File ID</u>                     | <u>New Table Names</u>  | <u>New File ID</u>              |
|--|--|---|---------------------------------|
| <a href="#">DISPATCH FCAS REQ</a>      | <a href="#">DISPATCHIS FCAS</a>        | <a href="#">DISPATCH FCAS REQ RUN</a><br><a href="#">DISPATCH FCAS REQ CONSTRAINT</a> | <a href="#">DISPATCHFCST</a>    |
| <a href="#">PREDISPATCH FCAS REQ</a>   | <a href="#">PREDISPATCHIS FCAS</a>     | <a href="#">PD FCAS REQ RUN</a><br><a href="#">PD FCAS REQ CONSTRAINT</a>             | <a href="#">PREDISPATCHFCST</a> |
| <a href="#">P5MIN_FCAS_REQUIREMENT</a> | <a href="#">P5MIN_FCAS_REQUIREMENT</a> | <a href="#">P5MIN_FCAS_REQ_RUN</a><br><a href="#">P5MIN_FCAS_REQ CONSTRAINT</a>       | <a href="#">P5MINFCST</a>       |

[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.](#)

## 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

~~In Data Model v5.5 introduces, a new feature embedding has been introduced to allow the pdrLoader ~~PdrLoader~~ mapping configuration ~~to be embedded~~ as a resource within the Data Model package file. You require ~~The~~ Data Model Manager v1.2 to ~~can~~ 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~~ This enhancement ensures ~~that~~ environments not permanently connected to an AEMO system still receive the necessary ~~configuration~~ updates, preventing ~~issues from~~ missing configurations.

- ~~You must apply the pdrLoader Data Model Manager v1.2 is required to apply the DMv5.5 release, as this capability is not available in earlier versions~~

If 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~~ ~~it~~ is partially loaded, ~~the~~ Data Model Manager fills in any missing data.



- ~~If the PDR\_\* tables are not present, Data Model Manager skips this step entirely. Participants must apply the PdrLoader mapping configuration using existing methods, either by pushing from AEMO to a connected system or applying manually in development/test systems that are not permanently connected to AEMO market systems.~~

## 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.

### 4.1 Data model changes summary

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|--------|---|----|
| 4.2    | Package: SETTLEMENT_DATA .....  | 21 |
| 4.2.1  | Modified table: DAYTRACK .....  | 21 |
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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

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

### New columns

| Field name          | Data type   | Primary key | Comment   |
|---------------------|-------------|-------------|---|
| <b>METER_CASEID</b> | 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   |
|----------------------|--------------|-------------|---|
| <b>METER_RUNTYPE</b> | VARCHAR2(10) | No          | The Type of Settlement Run (ESTIMATE/PRELIM/FINAL/REVISE) |

#### 4.2.2 New table: SET\_FCAS\_CLAWBACK\_RUN\_TRK

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

#### New columns

| Field name            | Data type   | Primary key | Comment                                 |
|-----------------------|-------------|-------------|---|
| <b>SETTLEMENTDATE</b> | DATE        | Yes         | The Settlement Date of the Billing Week |
| <b>VERSIONNO</b>      | NUMBER(3,0) | Yes         | The Settlement Run No                   |



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

### 4.2.3 New table: SET\_FCAS\_CLAWBACK\_UNITSOLN

|  |   |
|--|---|
| <b>Comment</b>                         | This report contains the Interval Datetime affected by the Clawback Run and the reduced MW for the FCAS Service for each affected DUID. |
| <b>Visibility</b>                      | Private   |
| <b>Data volume</b>                     | Medium  |
| <b>Trigger</b>                         | Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run   |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports   |
| <b>Primary key (in order)</b>          | INTERVAL_DATETIME, RUNNO, DUID  |



## New columns

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





#### 4.2.4 New table: SET\_FCAS\_CLAWBACK\_REQ

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

#### New columns

| Field name                   | Data type    | Primary key | Comment   |
|------------------------------|--------------|-------------|---|
| <b>INTERVAL_DATETIME</b>     | DATE         | Yes         | The Interval Datetime for which a the Clawback Run has been completed.  |
| <b>RUNNO</b>                 | NUMBER(3,0)  | Yes         | The RunNo associated with the Clawback Run for the above interval date time.  |
| <b>CONSTRAINTID</b>          | VARCHAR2(20) | Yes         | The FCAS Constraint ID used in the FCAS Requirements.   |
| <b>REGIONID</b>              | VARCHAR2(20) | Yes         | The Region ID associated with each Constraint Requirements  |
| <b>BIDTYPE</b>               | VARCHAR2(10) | Yes         | The FCAS Service - DUID offered type  |
| <b>REGION_ENABLEMENT</b>     | NUMBER(18,8) | No          | The Overridden Regional Enablement. SUM (FCAS MW) from FCAS.Clawback_Unitsolution   |
| <b>CONSTRAINT_ENABLEMENT</b> | 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   |



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

**New columns**

| Field name            | Data type    | Primary key | Comment  |
|-----------------------|--------------|-------------|--|
| <b>SETTLEMENTDATE</b> | DATE         | Yes         | The Settlement Date of the Billing Week  |
| <b>VERSIONNO</b>      | NUMBER(3,0)  | Yes         | The Settlement Run No  |
| <b>UNITID</b>         | VARCHAR2(10) | Yes         | The UNITID with CF factor assigned. This is a DUID or a TNI. Refer table FPP_CONTRIBUTION_FACTOR |
| <b>CONSTRAINTID</b>   | VARCHAR2(20) | Yes         | The FCAS Regulation Constraint ID  |
| <b>PERIODID</b>       | NUMBER(3,0)  | Yes         | The Period ID Identifier   |
| <b>PARTICIPANTID</b>  | VARCHAR2(20) | No          | The Participant Id Identifier  |
| <b>BIDTYPE</b>        | VARCHAR2(10) | No          | The BidType LOWERREG or RAISEREG for the Constraint ID   |
| <b>FPP_AMOUNT</b>     | NUMBER(18,8) | No          | The FPP Amount calculated for the Constraint and UNITID using the FPP Contribution Factor        |
| <b>USED_AMOUNT</b>    | NUMBER(18,8) | No          | The Regulation Used Recovery Amount from the eligible Units using Negative CF Value              |
| <b>UNUSED_AMOUNT</b>  | NUMBER(18,8) | No          | The Regulation Unused Recovery Amount from Eligible Units using DCF Value                        |



| Field name         | Data type | Primary key | Comment                                   |
|--------------------|-----------|-------------|---|
| <b>LASTCHANGED</b> | DATE      | No          | The Last Changed Date time of the record. |

#### 4.2.6 New table: SET\_FCAS\_REG\_RESIDAMT

|  |   |
|--|---|
| <b>Comment</b>                         | 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 |
| <b>Visibility</b>                      | Private   |
| <b>Data volume</b>                     | Medium  |
| <b>Trigger</b>                         | Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run   |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports   |
| <b>Primary key (in order)</b>          | SETTLEMENTDATE, VERSIONNO,PARTICIPANTID,CONSTRAINTID,PERIODID, REGIONID   |

#### New columns

| Field name            | Data type    | Primary key | Comment                                 |
|-----------------------|--------------|-------------|---|
| <b>SETTLEMENTDATE</b> | DATE         | Yes         | The Settlement Date of the Billing Week |
| <b>VERSIONNO</b>      | NUMBER(3,0)  | Yes         | The Settlement Run No                   |
| <b>PARTICIPANTID</b>  | VARCHAR2(20) | Yes         | The Participant Id Identifier           |



| Field name                  | Data type    | Primary key | Comment   |
|-----------------------------|--------------|-------------|---|
| <b>CONSTRAINTID</b>         | VARCHAR2(20) | Yes         | The FCAS Regulation Constraint ID   |
| <b>PERIODID</b>             | NUMBER(3,0)  | Yes         | The Period ID Identifier  |
| <b>REGIONID</b>             | VARCHAR2(20) | Yes         | The RegionId used for the residual calculation. This is the Constraint Requirement Region.  |
| <b>BIDTYPE</b>              | VARCHAR2(10) | No          | The BidType LOWERREG or RAISEREG for the Constraint ID  |
| <b>ACE_MWH</b>              | NUMBER(18,8) | No          | The ACE MWh value that is used for the Residual Calculation.(Excluding CPID with CF)  |
| <b>ASOE_MWH</b>             | 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.          |
| <b>RESIDUAL_MWH</b>         | 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                      |
| <b>FPP_ACE_AMOUNT</b>       | 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.             |
| <b>FPP_ASOE_AMOUNT</b>      | 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.           |
| <b>FPP_RESIDUAL_AMOUNT</b>  | NUMBER(18,8) | No          | Sum of FPP_ACE_Amount + FPP_ASOE_Amount   |
| <b>USED_ACE_AMOUNT</b>      | NUMBER(18,8) | No          | The Used Recovery ACE Amount calculated using the ACE MWh value of the requirement regions.   |
| <b>USED_ASOE_AMOUNT</b>     | NUMBER(18,8) | No          | The Used Recovery ASOE Amount is always 0 as FCAS Regulation Residual is calculated using ACE MWh values only.                          |
| <b>USED_RESIDUAL_AMOUNT</b> | NUMBER(18,8) | No          | The Used Residual Amount is Same as Used_ACE_Amount   |
| <b>UNUSED_ACE_AMOUNT</b>    | 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  |
|-------------------------------|--------------|-------------|--|
| <b>UNUSED_ASOE_AMOUNT</b>     | NUMBER(18,8) | No          | The Unused Recovery ASOE Amount is always 0 as FCAS Regulation Residual is calculated using ACE MWh values only. |
| <b>UNUSED_RESIDUAL_AMOUNT</b> | NUMBER(18,8) | No          | The Unused Residual Amount is Same as Unused_ACE_Amount  |
| <b>LASTCHANGED</b>            | DATE         | No          | The Last Changed Date time of the record.  |

#### 4.2.7 New table: SET\_FCAS\_REG\_DEF\_AMT

|  |  |
|--|--|
| <b>Comment</b>                         | 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. |
| <b>Visibility</b>                      | Private  |
| <b>Data volume</b>                     | Medium   |
| <b>Trigger</b>                         | Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run  |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports  |
| <b>Primary key (in order)</b>          | SETTLEMENTDATE, VERSIONNO,UNITID,CONSTRAINTID,PERIODID   |



### New columns

| Field name            | Data type    | Primary key | Comment  |
|-----------------------|--------------|-------------|--|
| <b>SETTLEMENTDATE</b> | DATE         | Yes         | The Settlement Date of the Billing Week  |
| <b>VERSIONNO</b>      | NUMBER(3,0)  | Yes         | The Settlement Run No  |
| <b>UNITID</b>         | VARCHAR2(10) | Yes         | The UnitId with CF factor assigned. This is a DUID or a TNI. Refer table FPP_CONTRIBUTION_FACTOR |
| <b>CONSTRAINTID</b>   | VARCHAR2(20) | Yes         | The FCAS Regulation Constraint ID  |
| <b>PERIODID</b>       | NUMBER(3,0)  | Yes         | The Period ID Identifier   |
| <b>PARTICIPANTID</b>  | VARCHAR2(20) | No          | The Participant Id Identifier  |
| <b>BIDTYPE</b>        | VARCHAR2(10) | No          | The BidType LOWERREG or RAISEREG for the Constraint ID   |
| <b>UNUSED_AMOUNT</b>  | NUMBER(18,8) | No          | The Regulation Unused Recovery Amount from Eligible Units using DCF Value                        |
| <b>LASTCHANGED</b>    | DATE         | No          | The Last Changed Date time of the record.  |

### 4.2.8 New table: SET\_FCAS\_REG\_DEF\_RESIDAMT

|                    |   |
|--------------------|---|
| <b>Comment</b>     | 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 |
| <b>Visibility</b>  | Private   |
| <b>Data volume</b> | Medium  |
| <b>Trigger</b>     | Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run   |



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

**New columns**

| Field name            | Data type    | Primary key | Comment   |
|-----------------------|--------------|-------------|---|
| <b>SETTLEMENTDATE</b> | DATE         | Yes         | The Settlement Date of the Billing Week   |
| <b>VERSIONNO</b>      | NUMBER(3,0)  | Yes         | The Settlement Run No   |
| <b>PARTICIPANTID</b>  | VARCHAR2(20) | Yes         | The Participant Id Identifier   |
| <b>CONSTRAINTID</b>   | VARCHAR2(20) | Yes         | The FCAS Regulation Constraint ID   |
| <b>PERIODID</b>       | NUMBER(3,0)  | Yes         | The Period ID Identifier  |
| <b>REGIONID</b>       | VARCHAR2(20) | Yes         | The RegionId used for the residual calculation. This is the Constraint Requirement Region.  |
| <b>BIDTYPE</b>        | VARCHAR2(10) | No          | The BidType LOWERREG or RAISEREG for the Constraint ID  |
| <b>ACE_MWH</b>        | NUMBER(18,8) | No          | The ACE MWh value that is used for the Residual Calculation.(Excluding CPID with CF)  |
| <b>ASOE_MWH</b>       | NUMBER(18,8) | No          | The ASOE MWh value that is used for the Residual Calculation.(Excluding CPID with CF)   |
| <b>RESIDUAL_MWH</b>   | 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  |
|---------------------------------|--------------|-------------|--|
| <b>VERSIONNO</b>                | NUMBER(3,0)  | Yes         | The Settlement Run No  |
| <b>PARTICIPANTID</b>            | VARCHAR2(20) | Yes         | The Participant Id Identifier  |
| <b>REGIONID</b>                 | VARCHAR2(20) | Yes         | The RegionId used for the residual calculation. This is the Constraint Requirement Region. |
| <b>PERIODID</b>                 | NUMBER(3,0)  | Yes         | The Period ID Identifier   |
| <b>LOWERREG_AMOUNT</b>          | NUMBER(18,8) | No          | The LowerReg Amount from the Eligible Units.   |
| <b>LOWERREG_ACE_AMOUNT</b>      | NUMBER(18,8) | No          | The LowerReg Amount from the ACE Portion of the Residual amount                            |
| <b>LOWERREG_ASOE_AMOUNT</b>     | NUMBER(18,8) | No          | The LowerReg Amount from the ASOE Portion of the Residual amount                           |
| <b>LOWERREG_RESIDUAL_AMOUNT</b> | NUMBER(18,8) | No          | The Lower Reg Residual Amount which is also LowerReg_ACE_Amount + LowerReg_ASOE_Amount     |
| <b>RAISEREG_AMOUNT</b>          | NUMBER(18,8) | No          | The RaiseReg Amount from the Eligible Units.   |
| <b>RAISEREG_ACE_AMOUNT</b>      | NUMBER(18,8) | No          | The RaiseReg Amount from the ACE Portion of the Residual amount                            |
| <b>RAISEREG_ASOE_AMOUNT</b>     | NUMBER(18,8) | No          | The RaiseReg Amount from the ASOE Portion of the Residual amount                           |
| <b>RAISEREG_RESIDUAL_AMOUNT</b> | NUMBER(18,8) | No          | The Raise Reg Residual Amount which is also RaiseReg_ACE_Amount + RaiseReg_ASOE_Amount     |
| <b>LASTCHANGED</b>              | DATE         | No          | The Last Changed Date time of the record.  |



#### 4.2.10 Modified table: SET\_FCAS\_REGULATION\_TRK

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

#### New columns

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



| Field name               | Data type    | Primary key | Comment   |
|--------------------------|--------------|-------------|---|
| <b>RCR</b>               | NUMBER(18,8) | No          | The RCR Value from the FPP Inputs for the Constraint Id used to calculate FPP Amount              |
| <b>USAGE_VALUE</b>       | NUMBER(18,8) | No          | The Usage Value from the FPP Inputs for the Constraint Id used to calculate Used Amount           |
| <b>RCF</b>               | NUMBER(18,8) | No          | The RCF Value from the FPP Inputs for the Constraint Id used to calculate FPP Residual            |
| <b>NRCF</b>              | NUMBER(18,8) | No          | The NRCF Value from the FPP Inputs for the Constraint Id used to calculate Used Residual Amount   |
| <b>DRCF</b>              | NUMBER(18,8) | No          | The DRCF Value from the FPP Inputs for the Constraint Id used to calculate Unused Residual Amount |
| <b>RESIDUALTOTAL_MWH</b> | 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  |
|------------------------------|--------------|-------------|--|
| <b>CMPF</b>                  | NUMBER(18,8) | No          | Constraint Market Participant Factor. This column is NULL for Settlement Dates past FPP Rule Effective Date          |
| <b>CRMPF</b>                 | NUMBER(18,8) | No          | Constraint Residual Market Participant Factor. This column is NULL for Settlement Dates past FPP Rule Effective Date |
| <b>RECOVERY_FACTOR_CMPF</b>  | NUMBER(18,8) | No          | Recovery factor for CMPF based recovery. This column is NULL for Settlement Dates past FPP Rule Effective Date       |
| <b>RECOVERY_FACTOR_CRMPF</b> | 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

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

#### New columns

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



| Field name                      | Data type    | Primary key | Comment   |
|---------------------------------|--------------|-------------|---|
| <b>LOWERREG_USED_ASOE</b>       | NUMBER(18,8) | No          | The LowerReg Used ASOE Portion amount for the Participant and Region  |
| <b>LOWERREG_USED_RESIDUAL</b>   | NUMBER(18,8) | No          | The LowerReg Used Residual amount for the Participant and Region (LowerReg_Used_ACE + LowerReg_Used_ASOE)     |
| <b>RAISEREG_USED_ACE</b>        | NUMBER(18,8) | No          | The RaiseReg Used ACE Portion amount for the Participant and Region   |
| <b>RAISEREG_USED_ASOE</b>       | NUMBER(18,8) | No          | The RaiseReg Used ASOE Portion amount for the Participant and Region  |
| <b>RAISEREG_USED_RESIDUAL</b>   | NUMBER(18,8) | No          | The RaiseReg Used Residual amount for the Participant and Region RaiseReg_Used_ACE + RaiseReg_Used_ASOE       |
| <b>LOWERREG_UNUSED_ACE</b>      | NUMBER(18,8) | No          | The LowerReg Unused ACE Portion amount for the Participant and Region   |
| <b>LOWERREG_UNUSED_ASOE</b>     | NUMBER(18,8) | No          | The LowerReg Unused ASOE Portion amount for the Participant and Region  |
| <b>LOWERREG_UNUSED_RESIDUAL</b> | NUMBER(18,8) | No          | The LowerReg Unused Residual amount for the Participant and Region LowerReg_Unused_ACE + LowerReg_Unused_ASOE |
| <b>RAISEREG_UNUSED_ACE</b>      | NUMBER(18,8) | No          | The RaiseReg Unused ACE Portion amount for the Participant and Region   |
| <b>RAISEREG_UNUSED_ASOE</b>     | NUMBER(18,8) | No          | The RaiseReg Unused ASOE Portion amount for the Participant and Region  |
| <b>RAISEREG_UNUSED_RESIDUAL</b> | 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   |
|--------------------------|--------------|-------------|---|
| <b>LOWERREG_RECOVERY</b> | 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> |
| <b>RAISEREG_RECOVERY</b> | 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> |
| <b>LOWERREG_ACE</b>      | 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>                      |
| <b>RAISEREG_ACE</b>      | 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)

|  |   |
|--|---|
| <b>Comment</b>                         | <p>SET_NMAS_RECOVERY sets out the NSCAS recovery data for payments other than testing</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> |
| <b>Visibility</b>                      | Private   |
| <b>Data volume</b>                     |   |
| <b>Trigger</b>                         | Settlement Run  |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport  |
| <b>Primary key (in order)</b>          | CONTRACTID<br>PARTICIPANTID<br>PAYMENTTYPE<br>PERIODID<br>REGIONID<br>SERVICE<br>SETTLEMENTDATE<br>VERSIONNO  |

#### 4.2.13 Modified table: SET\_NMAS\_RECOVERY\_RBF (comment changes heading only)

|                    |   |
|--------------------|---|
| <b>Comment</b>     | <p>SET_NMAS_RECOVERY_RBF publishes the RBF for NSCAS non testing payments on a half hourly basis.</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> |
| <b>Visibility</b>  | Public  |
| <b>Data volume</b> |   |





|  |   |
|--|---|
| <b>Comment</b>                         | <p>SET_NMAS_RECOVERY_RBF publishes the RBF for NSCAS non testing payments on a half hourly basis.</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> |
| <b>Trigger</b>                         | Settlement Run  |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport  |
| <b>Primary key (in order)</b>          | <p>CONTRACTID</p> <p>PAYMENTTYPE</p> <p>PERIODID</p> <p>REGIONID</p> <p>SERVICE</p> <p>SETTLEMENTDATE</p> <p>VERSIONNO</p>  |

#### 4.2.14 Modified table: SETLSHEDPAYMENT (comment changes heading only)

|  |   |
|--|---|
| <b>Comment</b>                         | <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> |
| <b>Visibility</b>                      | Private   |
| <b>Data volume</b>                     |   |
| <b>Trigger</b>                         | Settlement Run  |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport  |



|                               |   |
|-------------------------------|---|
| <b>Comment</b>                | <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> |
| <b>Primary key (in order)</b> | <p>CONTRACTID<br/>                 PARTICIPANTID<br/>                 PERIODID<br/>                 SETTLEMENTDATE<br/>                 VERSIONNO</p>   |

#### 4.2.15 Modified table: SETRPOWERPAYMENT (comment changes heading only)

|  |   |
|--|---|
| <b>Comment</b>                         | <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> |
| <b>Visibility</b>                      | Private   |
| <b>Data volume</b>                     |   |
| <b>Trigger</b>                         | Settlement Run  |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport  |
| <b>Primary key (in order)</b>          | <p>CONTRACTID<br/>                 PARTICIPANTID<br/>                 PERIODID<br/>                 SETTLEMENTDATE<br/>                 VERSIONNO</p>   |



### 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

|  |   |
|--|---|
| <b>Comment</b>                         | This report show the summary of the Billing run FCAS Regulation Amounts incl default amounts. |
| <b>Visibility</b>                      | Private   |
| <b>Data volume</b>                     | Medium  |
| <b>Trigger</b>                         | Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run                             |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports                                       |
| <b>Primary key (in order)</b>          | CONTRACTYEAR, WEEKNO,BILLRUNNO,PARTICIPANTID,UNITID,CONSTRAINTID, CONNECTIONPOINTID, REGIONID |

#### New columns

| Field name          | Data type   | Primary key | Comment                   |
|---------------------|-------------|-------------|---------------------------|
| <b>CONTRACTYEAR</b> | NUMBER(4,0) | Yes         | The Billing Contract Year |
| <b>WEEKNO</b>       | NUMBER(3,0) | Yes         | The Billing WeekNo        |
| <b>BILLRUNNO</b>    | NUMBER(4,0) | Yes         | The Billing RunNo         |



| Field name               | Data type    | Primary key | Comment  |
|--------------------------|--------------|-------------|--|
| <b>PARTICIPANTID</b>     | VARCHAR2(20) | Yes         | The Participant Id Identifier                                      |
| <b>UNITID</b>            | VARCHAR2(20) | Yes         | The UnitId for which a FPP Factor is assigned                      |
| <b>CONSTRAINTID</b>      | VARCHAR2(20) | Yes         | The FCAS Reg Constraint Id   |
| <b>CONNECTIONPOINTID</b> | VARCHAR2(20) | Yes         | The ConnectionPointId from Settlement Results for the UnitId       |
| <b>REGIONID</b>          | VARCHAR2(20) | Yes         | The Region Id Identifier   |
| <b>BIDTYPE</b>           | VARCHAR2(10) | No          | The BidType for the Constraint Id                                  |
| <b>FPP_AMOUNT</b>        | NUMBER(18,8) | No          | The FPP Amount for the Participant and the Unit                    |
| <b>USED_AMOUNT</b>       | NUMBER(18,8) | No          | The FCAS Regulation Used Amount for the Participant and the Unit   |
| <b>UNUSED_AMOUNT</b>     | NUMBER(18,8) | No          | The FCAS Regulation Unused Amount for the Participant and the Unit |
| <b>LASTCHANGED</b>       | 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 |
|--|---|
| <b>Visibility</b>                      | Private   |
| <b>Data volume</b>                     | Medium  |
| <b>Trigger</b>                         | Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run                                     |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports   |



|                               |  |
|-------------------------------|--|
| <b>Comment</b>                | <b>This report show the summary of the Billing run FCAS Regulation Residual Amounts incl default amounts</b> |
| <b>Primary key (in order)</b> | 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  |
|---------------------------------|--------------|-------------|--|
| <b>CONTRACTYEAR</b>             | NUMBER(4,0)  | Yes         | The Billing Contract Year  |
| <b>WEEKNO</b>                   | NUMBER(3,0)  | Yes         | The Billing WeekNo   |
| <b>BILLRUNNO</b>                | NUMBER(4,0)  | Yes         | The Billing RunNo  |
| <b>PARTICIPANTID</b>            | VARCHAR2(20) | Yes         | The Participant Id Identifier  |
| <b>REGIONID</b>                 | VARCHAR2(20) | Yes         | The Region Id Identifier   |
| <b>LOWERREG_AMOUNT</b>          | NUMBER(18,8) | No          | The Lower Reg Service FPP Amount for the Participant and the Region for the Billing Week               |
| <b>LOWERREG_ACE_AMOUNT</b>      | NUMBER(18,8) | No          | The Lower Reg Service FPP ACE Residual Amount for the Participant and the Region for the Billing Week  |
| <b>LOWERREG_ASOE_AMOUNT</b>     | NUMBER(18,8) | No          | The Lower Reg Service FPP ASOE Residual Amount for the Participant and the Region for the Billing Week |
| <b>LOWERREG_RESIDUAL_AMOUNT</b> | NUMBER(18,8) | No          | Sum of LOWERREG_ACE_AMOUNT + LOWERREG_ASOE_AMOUNT  |
| <b>RAISEREG_AMOUNT</b>          | NUMBER(18,8) | No          | The Raise Reg Service FPP Amount for the Participant and the Region for the Billing Week               |
| <b>RAISEREG_ACE_AMOUNT</b>      | NUMBER(18,8) | No          | The Raise Reg Service FPP ACE Residual Amount for the Participant and the Region for the Billing Week  |
| <b>RAISEREG_ASOE_AMOUNT</b>     | NUMBER(18,8) | No          | The Raise Reg Service FPP ASOE Residual Amount for the Participant and the Region for the Billing Week |
| <b>RAISEREG_RESIDUAL_AMOUNT</b> | NUMBER(18,8) | No          | RAISEREG_ACE_AMOUNT + RAISEREG_ASOE_AMOUNT   |
| <b>LASTCHANGED</b>              | DATE         | No          | The Lastchanged datetime of the record.  |



### 4.3.4 Modified table: BILLINGASRECOVERY

|  |  |
|--|--|
| <b>Comment</b>                         | This report shows participant charges for Ancillary Services for the billing period. This view shows the billing amounts for Ancillary Service Recovery. |
| <b>Visibility</b>                      | Private  |
| <b>Data volume</b>                     | Medium   |
| <b>Trigger</b>                         | Daily Billing Run & Posting a PRELIM/FINAL and REVISE Billing Run  |
| <b>Participant file share location</b> | <#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports   |
| <b>Primary key (in order)</b>          | CONTRACTYEAR, WEEKNO, BILLRUNNO, PARTICIPANTID, REGIONID   |

### New columns

| Field name               | Data type    | Primary key | Comment  |
|--------------------------|--------------|-------------|--|
| <b>LOWERREG_USED</b>     | 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              |
| <b>LOWERREG_UNUSED</b>   | 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            |
| <b>RAISEREG_USED</b>     | 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              |
| <b>RAISEREG_UNUSED</b>   | 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            |
| <b>LOWERREG_USED_ACE</b> | 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   |
|---------------------------------|--------------|-------------|---|
| <b>LOWERREG_USED_ASOE</b>       | 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            |
| <b>LOWERREG_USED_RESIDUAL</b>   | NUMBER(18,8) | No          | LOWERREG_USED_ASOE + LOWERREG_USED_ASOE   |
| <b>RAISEREG_USED_ACE</b>        | 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    |
| <b>RAISEREG_USED_ASOE</b>       | 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   |
| <b>RAISEREG_USED_RESIDUAL</b>   | NUMBER(18,8) | No          | RAISEREG_USED_ACE + RAISEREG_USED_ASOE  |
| <b>LOWERREG_UNUSED_ACE</b>      | 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  |
| <b>LOWERREG_UNUSED_ASOE</b>     | 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 |
| <b>LOWERREG_UNUSED_RESIDUAL</b> | NUMBER(18,8) | No          | LOWERREG_UNUSED_ACE + LOWERREG_UNUSED_ASOE  |
| <b>RAISEREG_UNUSED_ACE</b>      | 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  |
| <b>RAISEREG_UNUSED_ASOE</b>     | 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 |
| <b>RAISEREG_UNUSED_RESIDUAL</b> | NUMBER(18,8) | No          | RAISEREG_UNUSED_ACE + RAISEREG_UNUSED_ASOE  |



## Modified columns

Comment changes only

| Field name      | Data type    | Primary key | Comment  |
|-----------------|--------------|-------------|--|
| <b>LOWERREG</b> | 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.<br><br>For Billing Weeks past FPP Rule Effective Date this column is not used. Always show 0. |
| <b>RAISEREG</b> | 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.<br><br>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)

|  |   |
|--|---|
| <b>Comment</b>                         | <b>BILLING_NMAS_TEST_PAYMENTS</b> publish the NSCAS/SRAS Testing Payments data for a posted billing week.<br><br>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. |
| <b>Visibility</b>                      | Private   |
| <b>Data volume</b>                     |   |
| <b>Trigger</b>                         | Billing Run   |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport  |



|                               |  |
|-------------------------------|--|
| <b>Comment</b>                | <p><b>BILLING_NMAS_TEST_PAYMENTS</b> 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> |
| <b>Primary key (in order)</b> | <p>BILLRUNNO<br/>                 CONTRACTID<br/>                 CONTRACTYEAR<br/>                 PARTICIPANTID<br/>                 SERVICE<br/>                 WEEKNO</p>   |

**4.3.6 Modified table: BILLING\_NMAS\_TST\_RECOVERY (comment changes heading only)**

|  |   |
|--|---|
| <b>Comment</b>                         | <p><b>BILLING_NMAS_TEST_RECOVERY</b> 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> |
| <b>Visibility</b>                      | Private   |
| <b>Data volume</b>                     |   |
| <b>Trigger</b>                         | Billing Run   |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport  |



|                               |   |
|-------------------------------|---|
| <b>Comment</b>                | <p><b>BILLING_NMAS_TEST_RECOVERY</b> 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> |
| <b>Primary key (in order)</b> | <p>BILLRUNNO<br/>                 CONTRACTID<br/>                 CONTRACTYEAR<br/>                 PARTICIPANTID<br/>                 REGIONID<br/>                 SERVICE<br/>                 WEEKNO</p>  |

**4.3.7 Modified table: BILLING\_NMAS\_TST\_RECVR\_Y\_TRK (comment changes heading only)**

|  |   |
|--|---|
| <b>Comment</b>                         | <p><b>BILLING_NMAS_TEST_RECVR_Y_TRK</b> tracks the energy data used to allocate the test payment recovery over the recovery 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> |
| <b>Visibility</b>                      | PUBLIC  |
| <b>Data volume</b>                     |   |
| <b>Trigger</b>                         | Billing Run   |
| <b>Participant file share location</b> | <#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport   |
| <b>Primary key (in order)</b>          | <p>BILLRUNNO<br/>                 CONTRACTYEAR<br/>                 RECOVERY_BILLRUNNO<br/>                 RECOVERY_CONTRACTYEAR<br/>                 RECOVERY_WEEKNO<br/>                 WEEKNO</p>  |



## 4.4 Package: DISPATCH

Results from a published Dispatch Run

### 4.4.1 Modified table: DISPATCHREGIONSUM

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

### New columns

| Field name                           | Data type    | Primary Key | Comment   |
|--------------------------------------|--------------|-------------|---|
| <b>BDU_INITIAL_ENERGY_STORAGE</b>    | NUMBER(15,5) | No          | Energy Storage for BDU at the start of the interval (MWh) – Region Aggregated   |
| <b>DECGEN_INITIAL_ENERGY_STORAGE</b> | 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

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

#### Modified columns

Comment changes only

| Field name                    | Data type    | Primary Key | Comment   |
|-------------------------------|--------------|-------------|---|
| <b>INITIAL_ENERGY_STORAGE</b> | NUMBER(15,5) | No          | The energy storage at the start of this dispatch interval (MWh)                         |
| <b>ENERGY_STORAGE</b>         | 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

|  |  |
|--|--|
| <b>Comment</b>                         | The five-minute predispatch (P5Min) is a MMS system providing projected dispatch for 12 Dispatch cycles (one hour). The 5-minute Predispatch cycle runs every 5-minutes to produce a dispatch and pricing schedule to a 5-minute resolution covering the next hour, a total of twelve periods. P5MIN_REGIONSOLUTION shows the results of the regional capacity, maximum surplus reserve and maximum spare capacity evaluations for each period of the study. |
| <b>Visibility</b>                      | Public   |
| <b>Data volume</b>                     | Medium   |
| <b>Trigger</b>                         | P5MIN_REGIONSOLUTION updates every 5 minutes   |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVREPORTS  |
| <b>Primary key (in order)</b>          | INTERVAL_DATETIME, REGIONID, RUN_DATETIME  |

### New columns

| Field name                           | Data type    | Primary Key | Comment   |
|--------------------------------------|--------------|-------------|---|
| <b>BDU_INITIAL_ENERGY_STORAGE</b>    | Number(15,5) | No          | Energy Storage for BDU at the start of the interval (MWh) – Region Aggregated   |
| <b>DECGEN_INITIAL_ENERGY_STORAGE</b> | 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

|  |  |
|--|--|
| <b>Comment</b>                         | 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. |
| <b>Visibility</b>                      | Private  |
| <b>Data volume</b>                     | Medium   |
| <b>Trigger</b>                         | P5MIN_UNITSOLUTION updates every 5 minutes for all units, even zero targets.   |
| <b>Participant file share location</b> | <#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVREPORTS   |
| <b>Primary key (in order)</b>          | DUID, INTERVAL_DATETIME, RUN_DATETIME  |

#### Modified columns

Comment changes only

| Field name                    | Data type    | Primary Key | Comment   |
|-------------------------------|--------------|-------------|---|
| <b>INITIAL_ENERGY_STORAGE</b> | NUMBER(15,5) | No          | The energy storage at the start of this dispatch interval (MWh)                         |
| <b>ENERGY_STORAGE</b>         | 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

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

### Modified columns

Comment changes only

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



#### 4.6.2 Modified table: PREDISPATCREGIONSUM

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

#### New columns

| Field name                           | Data type    | Primary Key | Comment   |
|--------------------------------------|--------------|-------------|---|
| <b>BDU_INITIAL_ENERGY_STORAGE</b>    | NUMBER(15,5) | No          | Energy Storage for BDU at the start of the interval (MWh) – Region Aggregated   |
| <b>DECGEN_INITIAL_ENERGY_STORAGE</b> | 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

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

#### New columns

| Field name                           | Data type    | Primary Key | Comment   |
|--------------------------------------|--------------|-------------|---|
| <b>BDU_INITIAL_ENERGY_STORAGE</b>    | NUMBER(15,5) | No          | Energy Storage for BDU at the start of the interval (MWh) – Region Aggregated   |
| <b>DECGEN_INITIAL_ENERGY_STORAGE</b> | 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

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

|                    |   |
|--------------------|---|
| <b>Comment</b>     | 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. |
| <b>Visibility</b>  |   |
| <b>Data volume</b> |   |



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

**New columns**

| Field name           | Data type   | Primary Key | Comment  |
|----------------------|-------------|-------------|--|
| <b>RECALL_PERIOD</b> | 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

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

### Modified columns

Comment changes only

| Field name             | Data type | Primary key | Comment  |
|------------------------|-----------|-------------|--|
| <b>MW_QUALITY_FLAG</b> | NUMBER(5) | NO          | MW Quality (4 second SCADA measurement Quality)<br><br>Supported values are:<br><br>0 = Bad Quality<br>1 = Good Quality<br>2 = Suspect Quality<br><br>-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

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

Comment changes only

#### 4.9.3 Modified table: FPP\_REGION\_FREQ\_MEASURE

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



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

### Modified columns

Comment changes only

| Field name             | Data type | Primary key | Comment   |
|------------------------|-----------|-------------|---|
| <b>HZ_QUALITY_FLAG</b> | NUMBER(5) | NO          | Frequency Quality (4 second frequency deviation quality for that region)<br><br>Supported values are:<br><br>0 = Bad Quality<br>1 = Good Quality<br>2 = Suspect Quality<br><br>-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

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

#### Modified columns

| Field name                | Data type    | Primary key | Comment   |
|---------------------------|--------------|-------------|---|
| <b>SETTLEMENTS_UNITID</b> | VARCHAR2(50) | NO          | The Settlements Unit ID (registered DUID / TNI)<br><br>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

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

#### Modified columns

| Field name                | Data type    | Primary key | Comment   |
|---------------------------|--------------|-------------|---|
| <b>SETTLEMENTS_UNITID</b> | VARCHAR2(50) | NO          | The Settlements Unit ID (registered DUID / TNI)<br><br>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

|                   |  |
|-------------------|--|
| <b>Comment</b>    | 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. |
| <b>Visibility</b> | Private  |



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

### Modified columns

#### Comment changes only

| Field name             | Data type    | Primary key | Comment   |
|------------------------|--------------|-------------|---|
| <b>EST_UNUSED_FCAS</b> | 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

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

#### Modified columns

Comment changes only

| Field name             | Data type    | Primary key | Comment   |
|------------------------|--------------|-------------|---|
| <b>EST_UNUSED_FCAS</b> | 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

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

#### Modified columns

Comment changes only



| Field name             | Data type    | Primary key | Comment  |
|------------------------|--------------|-------------|--|
| <b>EST_UNUSED_FCAS</b> | 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

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



### Modified columns

#### Comment changes only

| Field name             | Data type    | Primary key | Comment  |
|------------------------|--------------|-------------|--|
| <b>EST_UNUSED_FCAS</b> | 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

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



### Modified columns

Comment changes only

| Field name        | Data type    | Primary key | Comment   |
|-------------------|--------------|-------------|---|
| <b>RUN_STATUS</b> | 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

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





## New columns

| Field name                        | Data type    | Primary key | Comment   |
|-----------------------------------|--------------|-------------|---|
| <b>REGIONID</b>                   | VARCHAR2(20) | YES         | Region ID of the historical region performance  |
| <b>EFFECTIVE_START_DATETIME</b>   | 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.      |
| <b>EFFECTIVE_END_DATETIME</b>     | 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.        |
| <b>VERSIONNO</b>                  | NUMBER(10)   | YES         | Version (FPP historical performance calculation run number from the FPP database)<br><br>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.  |
| <b>HIST_PERIOD_START_DATETIME</b> | 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. |
| <b>HIST_PERIOD_END_DATETIME</b>   | 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.   |
| <b>REG_HIST_RAISE_PERFORMANCE</b> | 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                                   |
| <b>REG_HIST_LOWER_PERFORMANCE</b> | 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  |
|-----------------------------------|--------------|-------------|--|
| <b>FPP_HIST_RAISE_PERFORMANCE</b> | 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 |
| <b>FPP_HIST_LOWER_PERFORMANCE</b> | 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

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

#### Modified columns

Comment changes only



| Field name               | Data type    | Primary key | Comment   |
|--------------------------|--------------|-------------|---|
| <b>USAGE_REASON_FLAG</b> | NUMBER(5)    | NO          | The reason flag showing the decision matrix for the usage calculation<br><br>Supported values are:<br>0 = Usage is calculated based on good input data<br>1 = Usage is 0 as FM is unreliable<br>2 = Usage is 0 as the percentage of units with unavailable input or bad data is greater than the threshold percentage |
| <b>USAGE_VALUE</b>       | 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

|  |  |
|--|--|
| <b>Comment</b>                         | This report delivers a summary of FCAS requirements as used by the FPP calculation (i.e. only RAISEREG / LOWERREG bid types) |
| <b>Visibility</b>                      | Public   |
| <b>Data volume</b>                     | Medium   |
| <b>Trigger</b>                         | At the completion of a FPP calculation run for a closed trading interval (i.e. every 5 minutes)                              |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports  |
| <b>Primary key (in order)</b>          | 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  |
|--------------------|--------------|-------------|--|
| <b>USAGE_VALUE</b> | 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

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



## New Columns

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



#### 4.10.2 Modified table: STPASA\_REGIONSOLUTION

|  |  |
|--|--|
| <b>Comment</b>                         | STPASA_REGIONSOLUTION shows the results of the regional capacity, maximum surplus reserve and maximum spare capacity evaluations for each period of the study. |
| <b>Visibility</b>                      | Public   |
| <b>Data volume</b>                     | Large  |
| <b>Trigger</b>                         | Start of each STPASA run (every hour)  |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports  |
| <b>Primary key (in order)</b>          | INTERVAL_DATETIME, REGIONID, RUN_DATETIME, RUNTYPE   |

#### Modified columns

Comment changes only

| Field name                       | Data type    | Primary key | Comment   |
|----------------------------------|--------------|-------------|---|
| <b>AGGREGATEPASAAVAILABLEITY</b> | NUMBER(12)   | No          | Sum of PASAAVAILABLEITY 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.<br><br>Note that the 'RELIABILITY_LRC' and 'OUTAGE_LRC' Run Types are discontinued from 31 July 2025. |
| <b>RUNTYPE</b>                   | 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

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

### New Columns

| Field name          | Data type | Primary key | Comment                                   |
|---------------------|-----------|-------------|---|
| <b>RUN_DATETIME</b> | DATE      | Yes         | First half hour ended interval of the run |



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

#### 4.11.2 Modified table: PDPASA\_REGIONSOLUTION

| Comment            | The PDPASA region solution data |
|--------------------|---------------------------------|
| <b>Visibility</b>  | Public                          |
| <b>Data volume</b> | Medium                          |





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

### Modified columns

Comment changes only

| Field name                        | Data type    | Primary key | Comment  |
|-----------------------------------|--------------|-------------|--|
| <b>AGGREGATEPASA AVAILABILITY</b> | 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.<br><br>Note that the 'OUTAGE_LRC' Run Type is discontinued from 31 July 2025. |
| <b>RUNTYPE</b>                    | 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

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

#### Modified columns

Comment changes only

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

#### 4.12.2 Modified table: ROOFTOP\_PV\_FORECAST

|                   |   |
|-------------------|---|
| <b>Comment</b>    | Regional forecasts of Rooftop Solar generation across the half-hour intervals over 8 days |
| <b>Visibility</b> | Public  |



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

**Modified columns**

Comment changes only

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

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

### 4.13.2 Modified table: CONTRACTREACTIVEPOWER (comment changes heading only)

|                    |   |
|--------------------|---|
| <b>Comment</b>     | <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> |
| <b>Visibility</b>  | Private   |
| <b>Data volume</b> |   |



|  |   |
|--|---|
| <b>Comment</b>                         | <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> |
| <b>Trigger</b>                         | Settlement run  |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport  |
| <b>Primary key (in order)</b>          | <p>CONTRACTID</p> <p>VERSIONNO</p>  |

## 4.14 Package: ASOFFER

### 4.14.1 Modified table: OFFERLSHEDDATA (comment changes heading only)

|  |   |
|--|---|
| <b>Comment</b>                         | <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> |
| <b>Visibility</b>                      | Private   |
| <b>Data volume</b>                     |   |
| <b>Trigger</b>                         | Settlement run  |
| <b>Participant file share location</b> | <#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport  |



|                               |  |
|-------------------------------|--|
| <b>Comment</b>                | <p><b>OFFERLSHEDDATA</b> 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> |
| <b>Primary key (in order)</b> | <p>CONTRACTID</p> <p>EFFECTIVEDATE</p> <p>PERIODID</p> <p>VERSIONNO</p>  |

#### 4.14.2 Modified table: OFFERPOWERDATA (comment changes heading only)

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



## 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   |
|------------------------|----------------------------|----------------|---------------------------------------|----------|
| <b>SETTLEMENT_DATA</b> | 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 |
| <b>BILLING_RUN</b>     | 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   |
|---------------------|-----------------------------|-----------------------------|-----------------------------------|----------|
| <b>P5MIN</b>        | P5MIN_REGIONSOLUTION        | P5MIN                       | P5MIN,REGIONSOLUTION,10           | Modified |
|                     | P5MIN_UNITSOLUTION          | P5MIN                       | P5MIN,UNITSOLUTION,6              | Modified |
| <b>PRE_DISPATCH</b> | PREDISPATCHLOAD             | PREDISPATCHIS               | PREDISPATCH,UNIT_SOLUTION,4       | Modified |
|                     | PREDISPATCHREGIONSUM        | PREDISPATCHIS               | PREDISPATCH,REGION_SOLUTION,9     | Modified |
| <b>DISPATCH</b>     | DISPATCHLOAD                | DISPATCHIS                  | DISPATCH,UNIT_SOLUTION,5          | Modified |
|                     | DISPATCHREGIONSUM           | DISPATCHIS                  | DISPATCH,REGIONSUM,9              | Modified |
| <b>BIDS</b>         | 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 |
| <b>PD7DAY</b>       | PD7DAY_PRICESOLUTION        | PD7DAY                      | PD7DAY,PRICESOLUTION,2            | Modified |
| <b>FPP</b>          | 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                                       |
| <b>STPASA_SOLUTION</b> | STPASA_DUIDAVAILABILITY     | STPASA              | STPASA, DUIDAVAILABILITY, 1   | New  |
|                        | STPASA_REGIONSOLUTION       | STPASA              | STPASA, REGION SOLUTION, 8    | Modified                                       |
| <b>PDPASA</b>          | PDPASA_DUIDAVAILABILITY     | PDPASA              | PDPASA, DUIDAVAILABILITY, 1   | New  |
|                        | PDPASA_REGIONSOLUTION       | PDPASA              | PDPASA, REGION SOLUTION, 8    | Modified                                       |

### 4.17 Discontinued reports

| Data model table  | File ID     | Delivered in file   | CSV report type       | Replaced by                            |
|-------------------|-------------|---------------------|-----------------------|--|
| <b>SETCPDATA</b>  | SETTLEMENTS | *_SETTLEMENTS_*.CSV | SETTLEMENTS,CPDATA,7  | SETTLEMENTS, SET_ENERGY_TRANSACTIONS,1 |
| <b>SETGENDATA</b> | 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  |
|-------------------------------|------------------------|-------------------------|--|--|
| <b>SETSMALLGENDATA</b>        | SETTLEMENTS            | *_SETTLEMENTS_*.CSV     | SETTLEMENTS,SMALLGENDATA,1                 | SETTLEMENTS,SET_ENERGY_TRANSACTIONS,1  |
| <b>SETFCASREGIONRECOVERY</b>  | SETTLEMENTS            | *_SETTLEMENTS_*.CSV     | SETTLEMENTS,FCASREGIONRECOVERY,5           | SETTLEMENTS,FCASREGIONRECOVERY,6   |
| <b>SET_FCAS_RECOVERY</b>      | SETTLEMENTS            | *_SETTLEMENTS_*.CSV     | SETTLEMENTS,FCAS_RECOVERY,7                | SETTLEMENTS,FCAS_RECOVERY,8  |
| <b>SETINTRAREGIONRESIDUES</b> | SETTLEMENTS            | *_SETTLEMENTS_*.CSV     | SETTLEMENTS,INTRAREGIONRESIDUES,5          | SETTLEMENTS,INTRAREGIONRESIDUES,6  |
| <b>SET_NMAS_RECOVERY</b>      | SETTLEMENTS            | *_SETTLEMENTS_*.CSV     | SETTLEMENTS,NMAS_RECOVERY,2                | SETTLEMENTS,NMAS_RECOVERY,3  |
| <b>SETMARKETFEEES</b>         | SETTLEMENTS            | *_SETTLEMENTS_*.CSV     | SETTLEMENTS,MARKETFEEES,6                  | SETTLEMENTS,MARKETFEEES,7  |
| <b>DISPATCH_FCAS_REQ</b>      | DISPATCHIS_FCAS        | *_DISPATCHIS_FCAS_*.CSV | DISPATCHIS_FCAS,DISPATCH_FCAS_REQ,3        | DISPATCH_FCAS_REQ_RUN and DISPATCH_FCAS_REQ_CONSTRAINT<br><br>Note that decommissioning of the old FCAS_REQ report will only be effective from after June 2025 |
| <b>DISPATCH_FCAS_REQ</b>      | DISPATCHIS_FCAS_LEGACY | *_DISPATCHIS_FCAS_*.CSV | DISPATCHIS_FCAS_LEGACY,DISPATCH_FCAS_REQ,3 | DISPATCH_FCAS_REQ_RUN and DISPATCH_FCAS_REQ_CONSTRAINT<br><br>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  |
|------------------------------------|---------------------------|--------------------------------|--|--|
| <b>PREDISPATCH_FCAS_REQ</b>        | PREDISPATCHIS_FCAS        | *_PREDISPATCHIS_FCAS_*.CSV     | PREDISPATCHIS_FCAS,PREDISPATCH_FCAS_REQ,2        | PD_FCAS_REQ_RUN and PD_FCAS_REQ_CONSTRAINT<br><br>Note that decommissioning of the old FCAS_REQ report will only be effective from after June 2025       |
| <b>PREDISPATCH_FCAS_REQ_LEGACY</b> | PREDISPATCHIS_FCAS_LEGACY | *_PREDISPATCHIS_FCAS_*.CSV     | PREDISPATCHIS_FCAS_LEGACY,PREDISPATCH_FCAS_REQ,2 | PD_FCAS_REQ_RUN and PD_FCAS_REQ_CONSTRAINT<br><br>Note that decommissioning of the old FCAS_REQ report will only be effective from after June 2025       |
| <b>P5MIN_FCAS_REQUIREMENT</b>      | P5MIN_FCAS_REQUIREMENT    | *_P5MIN_FCAS_REQUIREMENT_*.CSV | P5MIN_FCAS_REQUIREMENT,P5MIN_FCAS_REQUIREMENT,1  | P5MIN_FCAS_REQ_RUN and P5MIN_FCAS_REQ_CONSTRAINT<br><br>Note that decommissioning of the old FCAS_REQ report will only be effective from after June 2025 |
| <b>BILLING_APC_RECOVERY</b>        | BILLING                   | *_BILLING_*.CSV                | BILLING,APC_RECOVERY,2                           | BILLING,APC_RECOVERY,3   |
| <b>BILLRESERVETRADERRECOVERY</b>   | BILLING                   | *_BILLING_*.CSV                | BILLING,RESERVETRADERRECOVERY,2                  | BILLING,RESERVETRADERRECOVERY,3  |
| <b>BILLINGASRECOVERY</b>           | BILLING                   | *_BILLING_*.CSV                | BILLING,ASRECOVERY,8                             | BILLING,ASRECOVERY,9   |
| <b>DISPATCHLOAD</b>                | DISPATCHIS                | *_DISPATCHIS_*.CSV             | DISPATCHIS,UNIT_SOLUTION,4                       | DISPATCHIS,UNIT_SOLUTION,5   |
| <b>DISPATCHREGIONSUM</b>           | DISPATCHIS                | *_DISPATCHIS_*.CSV             | DISPATCHIS,REGIONSUM,7                           | DISPATCHIS,REGIONSUM,8   |
| <b>P5MIN_REGIONSOLUTION</b>        | P5MIN                     | *_P5MIN_*.CSV                  | P5MIN,REGIONSOLUTION,8                           | P5MIN,REGIONSOLUTION,9   |



| Data model table              | File ID         | Delivered in file       | CSV report type                 | Replaced by                     |
|-------------------------------|-----------------|-------------------------|---------------------------------|---------------------------------|
| <b>P5MIN_UNITSOLUTION</b>     | P5MIN           | *_P5MIN_*.CSV           | P5MIN,UNITSOLUTION,5            | P5MIN,UNITSOLUTION,6            |
| <b>PREDISPATCHLOAD</b>        | PREDISPATCHIS   | *_PREDISPATCHIS_*.CSV   | PREDISPATCHIS,UNIT_SOLUTION,3   | PREDISPATCHIS,UNIT_SOLUTION,4   |
| <b>PREDISPATCHREGIONSUM</b>   | PREDISPATCHIS   | *_PREDISPATCHIS_*.CSV   | PREDISPATCHIS,REGION_SOLUTION,7 | PREDISPATCHIS,REGION_SOLUTION,8 |
| <b>BIDDAYOFFER</b>            | BIDOFFERFILETRK | *_BIDOFFERFILETRK_*.CSV | BIDOFFERFILETRK,BIDDAYOFFER,2   | BIDOFFERFILETRK,BIDDAYOFFER,3   |
| <b>STAPASA_REGIONSOLUTION</b> | STPASA          | *_STPASA_*.CSV          | STPASA,REGIONSOLUTION,6         | STPASA,REGIONSOLUTION,7         |
| <b>PDPASA_REGIONSOLUTION</b>  | 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             |
| <b>Total Recovery (Payment to AEMO)</b> | <b>-\$0.62</b>   | <b>-\$1.78</b>     | <b>\$0.00</b>             | <b>-\$51.37</b>             | <b>-\$26.12</b> | <b>-\$15,659.77</b> | <b>-\$15,739.66</b> |

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 (-).

## 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.



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