

WEMS MPI User Guide: Prudential and Settlement Service

January 2024

Version 1.1





Important notice

Purpose

AEMO has prepared this document to provide information about the Prudential and Settlement Service (PaSS) support process available to Participants for the Wholesale Electricity Market System (WEMS), as at the date of publication.

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Version control

Version	Release date	Changes
1.0	11 August 2023	Initial release for WEM Reform.
1.1	3 January 2024	Minor updates to align headings with application menus; address formatting issues; add filename details for prudential data; and remove details about the "Download NSTEM Estimation Details" link in the Prudentials dashboard in accordance with a patch deployed between WEM PaSS 3.0 and WEM PaSS 3.1.



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1 Introduction

1.1 Overview

The purpose of this document is to describe the functions and capabilities of the Wholesale Electricity Market Prudential and Settlement Service (WEM PaSS) user interface and act as a guide to users.

The WEM PaSS user interface is accessible via the WEMS Market Participant Interface and is the medium between a Participant and AEMO for the following processes:

- Accessing invoicing and settlement data.
- Monitoring prudential exposure.
- Accessing information about Credit Limits and Credit Support.
- Managing prepayments.
- Managing Notices of Disagreement.

1.2 Supporting documentation

The following documents should be read in conjunction with this user guide:

- [WEM Procedure: Settlement](#)
- [WEM Procedure: Prudential Requirements](#)
- [WEM Metering Settlement and Prudential Calculations Formulation](#)
- [WEM Settlement Statement and Invoice Technical Guide](#)

1.3 Further information

Please contact WA Prudentials and Settlements at wa.settlements@aemo.com.au for any enquiries about the WEM PaSS application.

2 System Requirements

Please refer to the [WEM Procedure: Data and IT Interface Requirements](#) for more information on the necessary technical details and standards, software and hardware specifications, and security standards required for Participants to operate in the Wholesale Electricity Market (WEM).

3 Accessing the System

The WEM PaSS user interface is accessed by logging into [WEMS MPI](#) (see Figure 3).

The user is required to authenticate with their WEMS RSA SecurID token before the user is able to access WEMS MPI (see Figure 1). The RSA SecurID token can be identified by the RSA SecurID dark blue and red logo with white writing (see Figure 2). RSA SecurID tokens are managed and issued by AEMO. Individual roles and user accounts are managed by each Market Participant Administrator.

New users must apply for WEMS access by contacting their Market Participant Administrator (MPA) as well as completing the WEMS Token Request Form. This form, along with the RSA Quick Reference Guide, is available on the MPI login page or by emailing wa.operations@aemo.com.au. New users must also be assigned the appropriate roles by their MPA to ensure they have the correct access privileges. Refer to the [Market Participant Administrator Guide](#) for more information.

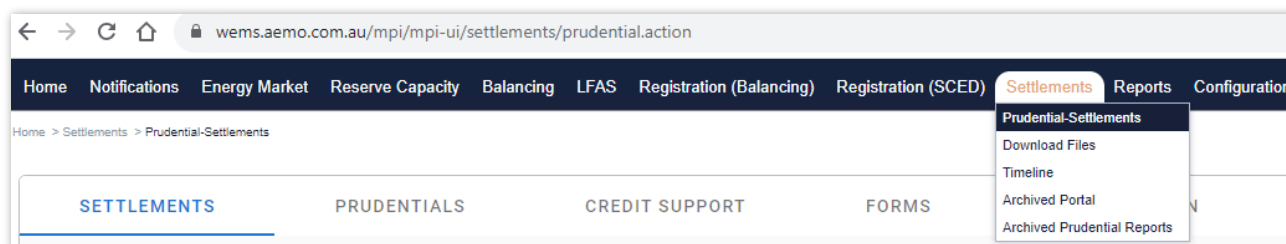
Figure 1 WEMS MPI login screen

The image shows the WEMS MPI login screen. At the top, there is a dark blue header with the AEMO logo on the left and the RSA SecurID logo on the right. Below the header, the main content area has a dark blue background with the text "Welcome to WEMS" in white. Underneath, there is a light gray box with the text "Log in to access WEMS". To the left of the login fields is an image of an RSA SecurID token. The login fields are "User ID:" and "Passcode:". Below the "Passcode:" field, there is a note: "Your Passcode is your PIN + the number displayed on your token (the Tokencode)". At the bottom of the login box are two buttons: "Log In" and "Reset". Below the login box, there are two links: "Apply for a Token" and "Login Reference Guide".

Figure 2 RSA SecurID token example



Figure 3 Prudential-Settlements menu in WEMS MPI



4 Formulation

The WEM PaSS is built on the foundation of the independently certified WEM Metering, Settlement and Prudential Calculation Formulation (the “Formulation”). This document creates a mathematically accurate representation of the WEM Rules, including:

- Representation of sets for use within the document;
- Mathematical equation representation of the WEM Rules;
- Specifications for variables used by the calculations;
- Trading Margin calculation for Participants on a given Trading Day;
- Settlement of the relevant market services;
- Interest calculation for the Adjustment Process; and
- Input estimation methodology for Prudentials.

This Formulation is the foundation for the prudential and settlement calculations implemented in AEMO's software. An extract of the Formulation is shown in Figure 4.

The latest versions of the Formulation can be found under [Settlement Technical Guides](#) on the AEMO Website.

Figure 4 Example STEM Payments and Charges section in the Formulation

4.4.1 STEM Payments and Charges

These equations are based on the equations stated in 9.6.1. They have been modified to aggregate to a Trading Day and to separate quantities into supply and demand.

$$STEMSAS_P_D(p, d) = \sum_{i \in I(d)} STEMSAS_PJ(p, i) \quad (102)$$

$$STEMSAD_P_D(p, d) = \sum_{i \in I(d)} STEMSAD_PJ(p, i) \quad (103)$$

$$STEMSAS_PJ(p, i) = \begin{cases} STEM_P_G_J(i) \times STEMSQ_PJ(p, i) & SSF_G_D(i) = 1 \\ 0 & SSF_G_D(i) = 0 \end{cases} \quad (104)$$

$$STEMSAD_PJ(p, i) = \begin{cases} STEM_P_G_J(i) \times STEM DQ_PJ(p, i) & SSF_G_D(i) = 1 \\ 0 & SSF_G_D(i) = 0 \end{cases} \quad (105)$$

$$STEMSQ_PJ(p, i) = \max(0, STEMQ_PJ(p, i) \times SSF_G_D(i)) \quad (106)$$

$$STEMDQ_PJ(p, i) = -\min(0, STEMQ_PJ(p, i) \times SSF_G_D(i)) \quad (107)$$

Variable	Units	SC	GR	Rule	Description	Ref
STEMSAS_P_D(p, d)	\$	P	D	9.6.1	Settlement amount for energy sold in STEM for Market Participant p in Trading Day d	(102)
STEMSAD_P_D(p, d)	\$	P	D	9.6.1	Settlement amount for energy purchased in STEM for Market Participant p in Trading Day d	(103)
STEMSAS_PJ(p, i)	\$	P	I	9.6.1	Settlement amount for energy sold in STEM for Market Participant p in Trading Interval i	(104)
STEMSAD_PJ(p, i)	\$	P	I	9.6.1	Settlement amount for energy purchased in STEM for Market Participant p in Trading Interval i	(105)
STEMSQ_PJ(p, i)	MWh	P	I		Energy sold in STEM by Market Participant p in Trading Interval i	(106)
STEMDQ_PJ(p, i)	MWh	P	I		Energy bought in STEM by Market Participant p in Trading Interval i	(107)
STEMQ_PJ(p, i)	MWh	P	I	6.9.13(b), 6.9.13(c), 6.10.2	Energy purchased (sold) in STEM by Market Participant p in Trading Interval i	I
SSF_G_D(d)	Flag	G	D		0 if STEM was suspended in Trading Day d, and 1 otherwise	I
STEM_P_G_J(i)	\$/MWh	G	I	6.9.7, 6.10.2	STEM Clearing Price declared for Trading Interval i	I
I(d)	{}	G	D		Set of Trading Intervals in Trading Day d	I

5 Prudential-Settlements

To access the Prudential-Settlements portal, select **Settlements > Prudential-Settlements**.

5.1 Settlements

This section applies to Invoices, including Adjustment Invoices, issued on or after 1 August 2021.

To access the Settlements dashboard, select the **Prudential-Settlements portal > Settlements**.

The Settlements dashboard provides an overview of a Participant's WEM, Non-STEM and STEM settlement outcomes and provides access to the corresponding Settlement Statement Summary, Settlement Statement Detail, and Settlement Invoices.

The default display is the WEM tab for the current calendar year (see Figure 5).

Change the market by toggling between the "WEM", "Non-STEM" and "STEM" tabs.

Change the calendar year using the "Year" drop-down menu.

Settlement outcomes are displayed according to the Invoice Period for the given market:

- WEM outcomes are displayed by Trading Week for the Initial, Adjustment 1, Adjustment 2 and Adjustment 3 settlements (see Figure 6).
- Non-STEM outcomes are displayed by Trading Month for the Initial, Adjustment 1, Adjustment 2 and Adjustment 3 settlements (see Figure 7).
- STEM outcomes are displayed by Trading Week (see Figure 8).

Note

The Settlements dashboard will only display a row with dollar values once Settlement Statements have been published for that Invoice Period. Non-STEM Settlement Invoices may be published at a different time or date to the Settlement Statements depending on the Settlement Timeline.

Figure 5 Settlements dashboard

SETTLEMENTS

PRUDENTIALS

CREDIT SUPPORT

Market Participant

Year
2023

DOWNLOAD AN INVOICE

WEM

NON-STEM

STEM

Period From	Period To	Invoice Period	Initial	Adjustment 1	Adjustment 2	Adjustment 3	Final Outcome
01/10/2023	07/10/2023	TW 01 OCT 2023	\$1,295,935.28				\$1,295,935.28
08/10/2023	14/10/2023	TW 08 OCT 2023	\$1,292,393.49				\$1,292,393.49
15/10/2023	21/10/2023	TW 15 OCT 2023	\$1,288,630.05				\$1,288,630.05

<

1

>

Figure 6 WEM display

WEM	NON-STEM	STEM
Period From	Period To	Invoice Period
01/10/2023	07/10/2023	TW 01 OCT 2023
08/10/2023	14/10/2023	TW 08 OCT 2023
15/10/2023	21/10/2023	TW 15 OCT 2023

Figure 7 Non-STEM display

WEM	NON-STEM	STEM
Period From	Period To	Invoice Period
01/01/2023	31/01/2023	Jan 2023
01/02/2023	28/02/2023	Feb 2023
01/03/2023	31/03/2023	Mar 2023
01/04/2023	30/04/2023	Apr 2023
01/05/2023	31/05/2023	May 2023

Figure 8 STEM display

WEM	NON-STEM	STEM
Period From	Period To	Invoice Period
05/01/2023	11/01/2023	TW 1/23
12/01/2023	18/01/2023	TW 2/23
19/01/2023	25/01/2023	TW 3/23
26/01/2023	01/02/2023	TW 4/23

5.1.1 Download Statement Summary, Statement Detail and Invoice

The Settlements dashboard supports CSV and PDF download formats depending on the data:

- Settlement Statement Summary is provided as a single CSV file for the Trading Week or Trading Month.
- Settlement Statement Detail ¹ is provided as a single ZIP file containing one CSV file for each day in the Trading Week or Trading Month.
- Settlement Invoices are provided as a single PDF.

The steps to download settlement data to a file are:

¹ Prior to 1 August 2021, Settlement Statement Detail was known to Participants as the PIR.



1. Select **Prudential-Settlements portal > Settlements**.
2. Select the relevant WEM/Non-STEM or STEM tab.
3. Click on the dollar amount for the Invoice Period (see Figure 9).
4. Select the required data and format (see Figure 10):
 - 4.1. **Settlement Statement Summary**: contains each line item found on the Invoice (see Figure 11).
 - 4.2. **Settlement Statement Detail**: contains all values used as inputs and the values resulting from the calculated variables (see Figure 12).
 - 4.3. **Invoice**: contains an itemised list of payments and charges associated to a trading period (see Figure 13)
5. Click the Download button.

The default file names for the settlement data are provided in Table 1.

Settlement variables align with the [WEM Metering Settlement and Prudential Calculations Formulation](#).

Refer to the [WEM Settlement Statement and Invoice Technical Guide](#) for information on understanding the content of Statements and Invoices.

Note

Download may take a while depending on the selection and will continue after the window is closed.

Figure 9 Settlements display with a published Settlement Statement

WEM	NON-STEM	STEM	
Period From	Period To	Invoice Period	Initial
01/10/2023	07/10/2023	TW 01 OCT 2023	\$1,295,935.28

Figure 10 Download dialog for settlement data

Download a document...

Document Type

Settlement Statement Summary (CSV)

Settlement Statement Detail (ZIP)

Invoice (PDF)

CLOSE X

DOWNLOAD


Figure 11 Example TW 01 Oct 2023 WEM Initial Settlement Statement Summary for Participant A

RunId	PublishedAt	MarketService	Designation	Period	PeriodFrom	PeriodTo	ParticipantCode	Variable	Timestamp	P Or C	GST Applicable	Value
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	INTC_P_D,1/10/2023	Charge,N			183374.5112
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	RRpayment_P_D,1/10/2023	Payment,Y			16.789
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	RoCoFpayment_P_D,1/10/2023	Payment,Y			12098.13
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	CLpayment_P_D,1/10/2023	Payment,Y			19465.12
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	CRpayment_P_D,1/10/2023	Payment,Y			187604.8508
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	EUR_P_D,1/10/2023	Charge,Y			1123.789
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	EUP_P_D,1/10/2023	Payment,Y			183378.3236
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	ETDA_P_D,1/10/2023	Charge,Y			0
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	ETSA_P_D,1/10/2023	Payment,Y			0
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	RLpayment_P_D,1/10/2023	Payment,Y			0
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	SRCC_P_D,1/10/2023	Charge,Y			0
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	CCR_P_D,1/10/2023	Charge,Y			562.13
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	CAPREBSA_P_D,1/10/2023	Payment,Y			9586.923
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,1/10/2023,7/10/2023	Participant A	STEMSAD_P_D,1/10/2023	Charge,Y			1068.451

Figure 12 Example TW 01 Oct 2023 WEM Initial Settlement Statement Detail for Participant A

RunId	PublishedAt	MarketService	Designation	Period	PeriodFrom	PeriodTo	ParticipantCode	Settlement Trading Day	Variable	Scope	Timestamp	Value
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	CFRATE_G_FY	Global	2023-07-01	"[0.0718]"
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	MFRATE_G_FY	Global	2023-07-01	"[0.4913]"
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	RFRATE_G_FY	Global	2023-07-01	"[0.1727]"
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	Adj0NULLFlag_G_W	Global	2023-10-01	"[1.0]"
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	Adj1NULLFlag_G_W	Global	2023-10-01	"[1.0]"
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	Adj2NULLFlag_G_W	Global	2023-10-01	"[1.0]"
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	Adj3NULLFlag_G_W	Global	2023-10-01	"[1.0]"
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	ESTIMATIONFlag_G_W	Global	2023-10-01	"[0.0]"
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	IRCR_G_M	Global	2023-10-01	"[4482.00000000]"
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	IRCR1NullFlag_G_M	Global	2023-10-01	"[0.0]"
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	IRCR2NullFlag_G_M	Global	2023-10-01	"[1.0]"
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	IRCR3NullFlag_G_M	Global	2023-10-01	"[1.0]"
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	RCP_G_CY	Global	2023-10-01	"[115780.247]"
50280	2023-08-01T15:35:27	WEM	INITIAL	TW 01	OCT	2023,2023-10-01,2023-10-07	IMOWA	2023-10-02	RCP_G_M	Global	2023-10-01	"[8829.10583333]"

Figure 13 Example TW 01 Oct 2023 WEM Initial Settlement Invoice for Participant A



Payment Summary
Wholesale Electricity Market

ABN 94 072 010 327
Level 45
152 St Georges Terrace
Perth WA 6000
PO Box 7096
Cloisters Square
Perth WA 6850
T 1300 989 797, Option 1
E wa.operations@aemo.com.au

Summary: 68309

Issued Date: 31/10/2023

Due Date: 02/11/2023

WEM TW 01 OCT 2023 - Initial

Description	Amount
Charge for System Restart Service	0.00
Payment for System Restart Service	0.00
Charge for STEM energy purchased	2,470.45
Payment for STEM energy sold	0.00
Payment for Supplementary Capacity Contracts	0.00
Charge for Targeted Reserve Capacity Cost	0.00
Payment for Participant Capacity Rebate	0.00
Payment for Capacity Credit Allocation over-allocation	0.00
Charge for Capacity Cost Refund	0.00
Payment for non-allocated Capacity Credits	0.00
Charge for Contingency Reserve Lower	16,383.18
Payment for Contingency Reserve Lower	0.00

Table 1 Default file names for settlement data file download

Download Format	File Name Format
CSV	{participantCode}_SUMMARY_{marketService}_{periodFrom}_{designation}_{timestamp}.csv <ul style="list-style-type: none"> participantCode: short name for the Participant marketService: STEM NSTEM WEM periodFrom: first day of the Trading Week or Trading Month as yyyyymmdd designation: INITIAL ADJ1 ADJ2 ADJ3 timestamp: user initiated download time as yyyyymmddhhmmss
ZIP	{participantCode}_DETAILS_{marketService}_{periodFrom}_{designation}_{timestamp}.zip <ul style="list-style-type: none"> participantCode: short name for the Participant marketService: STEM NSTEM WEM periodFrom: first day of the Trading Week or Trading Month as yyyyymmdd designation: INITIAL ADJ1 ADJ2 ADJ3 timestamp: user initiated download time as yyyyymmddhhmmss
CSV in ZIP	{marketService}_{participantCode}_{tradingDay}_{designation}.csv <ul style="list-style-type: none"> marketService: STEM NSTEM WEM participantCode: short name for the Participant tradingDay: Trading Day within the Trading Week or Trading Month as yyyyymmdd designation: INITIAL ADJ1 ADJ2 ADJ3
PDF	INV_{invoiceNumber}_{participantCode}_yyyy-mm-dd.pdf <ul style="list-style-type: none"> invoiceNumber: unique id of the invoice participantCode: short name for the Participant yyyy-mm-dd: date the invoice was generated by AEMO

5.1.2 Download an Invoice by invoice number

The steps to download a Settlement Invoice by a known invoice number are:

1. Select **Prudential-Settlements portal > Settlements**.
2. Click the Download an Invoice button (see Figure 14).
3. Type in the invoice number (see Figure 15).
4. Click the Download button.

Figure 14 Download an Invoice button

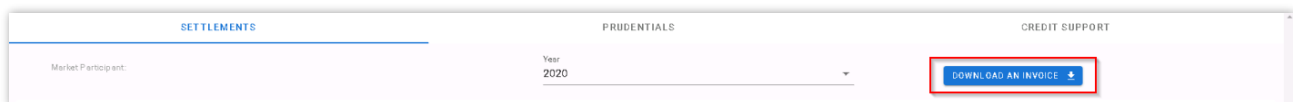
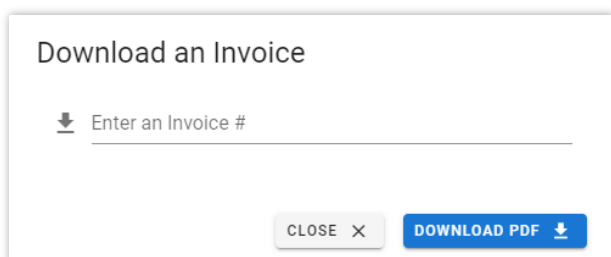


Figure 15 Download an Invoice dialog



5.2 Prudentials

This section applies to prudential information for Trading Days on or after 24 August 2020.

To access the Prudentials dashboard, select **Prudential-Settlements portal > Prudentials**.

5.2.1 Prudential Securities

This display provides an overview of the Participant's prudential performance (see Figure 16) and comprises the following elements:

- a graph of the Market Participant or Network Operator's prudential data;
- a period selector (based on the Market Participant or Network Operator's Trading Margin); and
- a table of the data used to drive the graph and period selector.

The table elements contain the data outlined in the [WEM Procedure: Prudential Requirements](#).

5.2.2 Prudential Settlement Statement

Below the Prudential Securities section is an additional table (see Figure 17) which provides a breakdown of Cumulative Estimated Exposure by Invoice period.

For example, for the forecast exposure on 8 November 2023, there were 25 days of WEM exposure contributing to the Cumulative Estimated Exposure value. This is broken down into the following Invoice periods:

- 7 days of WEM exposure in TW 15 Oct 2023
- 7 days of WEM exposure in TW 22 Oct 2023
- 7 days of WEM exposure in TW 29 Oct 2023
- 4 days of WEM exposure in TW 05 Nov 2023

The "As-at" radio button determines whether the breakdown is of the current Outstanding Amount calculation or the forecast Outstanding Amount calculation.

5.2.3 Download Summary and Details

The Prudentials dashboard supports CSV download formats for the underlying data:

- Prudential Summary is provided as a single CSV file for the set of exposed days used in the calculations for the latest "As Of Date".
- Prudential Details is provided as a single ZIP file containing one CSV file for each day in the set of exposed days used in the calculations for the latest "As Of Date". AEMO may separate specific variables into their own CSV file to reduce individual file size e.g. SESSM Award variables.

These files are overwritten each day following successful completion of the Cumulative Estimated Exposure calculations.

The steps to download prudential data to a file are:

1. Select the **Prudential-Settlements portal > Prudentials**.
2. Scroll to the bottom of the display to the “Prudential Settlement Statement” table.
3. Click on the relevant blue link:
 - 3.1. **Download Summary**: contains each line item equivalent to those found on the Invoice.
 - 3.2. **Download Details**: contains all values used as inputs, including any that were estimated by AEMO, and the values resulting from the calculated variables.

The default file names for the prudential data are provided in Table 2.

Prudential variables align with the [WEM Metering Settlement and Prudential Calculations Formulation](#).

The prudential data follows the same format as for Settlement Statements and Invoices as outlined in the [WEM Settlement Statement and Invoice Technical Guide](#).

Note

Download may take a while depending on the selection and will continue in the background.

Figure 16 Prudentials display

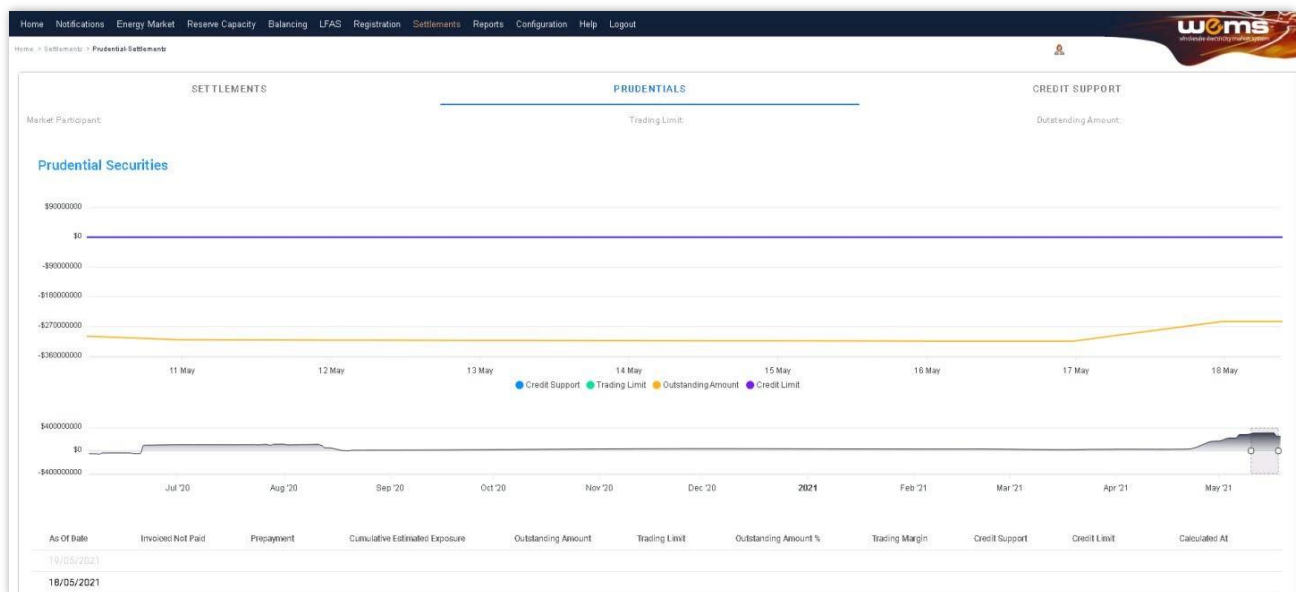


Figure 17 Cumulative Estimated Exposure by Invoice period

Prudential Settlement Statement

As at:

☒ Current (08/11/2023)

☐ Forecast (09/11/2023)

Participant	Market	Invoice Period	Adjustment Type	Type	Invoice Amount
IMOWA	WEM	TW 15 Oct 2023	Initial	Estimate	
IMOWA	WEM	TW 22 Oct 2023	Initial	Estimate	
IMOWA	WEM	TW 29 Oct 2023	Initial	Estimate	
IMOWA	WEM	TW 05 Nov 2023	Initial	Partial Estimate	

Rows per page: 10 1-4 of 4

[DOWNLOAD SUMMARY](#) [DOWNLOAD DETAILS](#)

Figure 18 Example Prudential Summary file

```

1 As of Date,Participant,Market,Variable,Timestamp,P or C,GST Applicable,Value
2 "2020-06-23","PARTYX","NSTEM","CASSR_P_D","2020-05-01","Payment","Y","0.00000000"
3 "2020-06-23","PARTYX","NSTEM","COFFC_P_D","2020-05-01","Payment","Y","0.00000000"
4 "2020-06-23","PARTYX","NSTEM","DIPT3_P_D","2020-05-01","Payment","Y","0.00000000"
5 "2020-06-23","PARTYX","NSTEM","LFMC_P_D","2020-05-01","Charge","Y","0.00000000"
6 "2020-06-23","PARTYX","NSTEM","SRAC_P_D","2020-05-01","Charge","Y","0.00000000"
7 "2020-06-23","PARTYX","NSTEM","CASD_P_D","2020-05-01","Payment","Y","0.00000000"
8 "2020-06-23","PARTYX","NSTEM","COCC_P_D","2020-05-01","Charge","Y","0.00000000"
9 "2020-06-23","PARTYX","NSTEM","CONC_P_D","2020-05-01","Payment","Y","0.00000000"
10 "2020-06-23","PARTYX","NSTEM","DSMCCSA_P_D","2020-05-01","Payment","Y","0.00000000"
11 "2020-06-23","PARTYX","NSTEM","MFSAD_P_D","2020-05-01","Charge","N","0.00000000"
12 "2020-06-23","PARTYX","NSTEM","RFSAD_P_D","2020-05-01","Charge","N","0.00000000"

```

Figure 19 Example Prudential Details file

```

1 As of Date,Participant,Settlement Trading Day,Variable,Scope,Timestamp,Value
2 "2020-06-23","PARTYX","2020-05-01","MAXPGR_P_CY","PARTYX","2019-10-01","0.0"
3 "2020-06-23","PARTYX","2020-05-01","DSMRCP_G_CY","Global","2019-10-01","16990.38"
4 "2020-06-23","PARTYX","2020-05-01","DSMRCP_G_M","Global","2019-10-01","1415.865"
5 "2020-06-23","PARTYX","2020-05-01","RCP_G_CY","Global","2019-10-01","126683.47"
6 "2020-06-23","PARTYX","2020-05-01","RCP_G_M","Global","2019-10-01","10556.95583333"
7 "2020-06-23","PARTYX","2020-05-01","TDTM_G_M","Global","2019-10-01","31.0"
8 "2020-06-23","PARTYX","2020-05-01","MAXPGR_P_D","PARTYX","2019-10-01","0.0"
9 "2020-06-23","PARTYX","2020-05-01","RCP_G_D","Global","2019-10-01","340.54696237"
10 "2020-06-23","PARTYX","2020-05-01","DSMRCP_G_D","Global","2019-10-01","45.67306452"
11 "2020-06-23","PARTYX","2020-05-01","RCP_G_D","Global","2019-10-02","340.54696237"
12 "2020-06-23","PARTYX","2020-05-01","DSMRCP_G_D","Global","2019-10-02","45.67306452"
13 "2020-06-23","PARTYX","2020-05-01","MAXPGR_P_D","PARTYX","2019-10-02","0.0"
14 "2020-06-23","PARTYX","2020-05-01","MAXPGR_P_D","PARTYX","2019-10-03","0.0"

```


Table 2 Default file names for prudential data file download

Download Format	File Name Format
CSV	{participantCode}_SUMMARY_{asAtDate}_{asAtType}_{timestamp}.csv <ul style="list-style-type: none"> participantCode: short name for the Participant asAtDate: the calculation day as yyyyymmdd asAtType: CURRENT FORECAST timestamp: user initiated download time as yyyyymmddhhmmss
ZIP	{participantCode}_DETAILS_{asAtDate}_{asAtType}_{timestamp}.csv <ul style="list-style-type: none"> participantCode: short name for the Participant asAtDate: the calculation day as yyyyymmdd asAtType: CURRENT FORECAST timestamp: user initiated download time as yyyyymmddhhmmss
CSV in ZIP	WEM_{participantCode}_{tradingDay}.csv <ul style="list-style-type: none"> participantCode: short name for the Participant tradingDay: Trading Day within the set of exposed days as yyyyymmdd SESSM_WEM_{participantCode}_{asAtDate}.csv <ul style="list-style-type: none"> participantCode: short name for the Participant asAtDate: the calculation day as yyyyymmdd

5.3 Credit Support

To access the Credit Support display, select **Prudential-Settlements portal > Credit Support**.

The Credit Support display (see Figure 20) provides the breakdown of a Participant's Credit Support instruments (Bank Guarantee or Security Deposits) and the history of Credit Limit as determined by AEMO.

5.3.1 Credit Support

The Credit Support table provides the history of Credit Support held by AEMO in relation to the Participant.

The effective Credit Support is determined as any instruments currently held by AEMO as listed in the Credit Support section with the 'Held' or 'Received' state. The history of Credit Support instruments is available as indicated by the 'Returned' or 'Drawn Down' state, to indicate the action AEMO had taken for that instrument.

While Bank Guarantees can only be actioned for the full quantity, Security Deposits may be partially returned/drawn down. This is shown by deducting any Security Deposits in a 'returned/drawn down' state from the total Security Deposits in a 'received' state.

Note

For the Prudential Service 1.4 release, AEMO entered the Credit Support instruments with their corresponding effective date and value. For Security Deposits, only the Security Deposit Deed were included with an additional record to adjust the balance to the value as at 20 August 2020. For the Prudential Service 1.5 release, AEMO uploaded all supporting documents (i.e. Bank Guarantees or Security Deposit Deeds/Directions) in relation to any Credit Support that was in place as at 1 February 2021.

5.3.2 Credit Limit

The Credit Limit table provides the history of Credit Limit determinations made by AEMO for the Participant.

The history is limited to the current Credit Limit effective after 1 July 2020 and any subsequent determinations by AEMO. The effective Credit Limit is determined by the “Effective Date” as applicable from that date until the next “Effective Date”.

The “Supporting Documents” field provides Rule Participants with increased visibility of the supporting documentation to assist with management of Credit Limits and Credit Support. AEMO will upload scanned copies of the Rule Participant’s Credit Support documents (such as Bank Guarantees, Security Deposit Deeds/Directions and correspondence pertaining to Credit Limit reviews), and will notify the Main Contact user by email when the correspondence is available to be downloaded.

Note

For the Prudential Service 1.4 release, AEMO entered the details of the Participant’s last Credit Limit determination only. For the Prudential Service 1.5 release, AEMO uploaded supporting documents in relation to any Credit Limit reviews (i.e. Credit Limit Review letters) undertaken from February 2021.

Figure 20 Credit Support display

SETTLEMENTS			PRUDENTIALS		CREDIT SUPPORT	
Market Participant:	Credit Support:	Bank Guarantees:	\$10.00	Security Deposits:	\$0.00	Credit Limit:
	\$10.00					\$10.00
Credit Support						
Bank Guarantees						
Amount	Effective From	Status	Effective To	Supporting Documents	Institution	Last Update
\$10.00	15th Nov 2020	Held	16th Nov 2020		ANZ	16th Nov 2020
Security Deposits						
Amount	Date of Deposit	Status	Supporting Documents	PPSR		Last Update
\$300,000.00	13th Aug 2020	Received		123456		13th Aug 2020
\$300,000.00	14th Aug 2020	Returned				13th Aug 2020
Credit Limit						
Amount	Effective From	Trend	Supporting Documents	Clause 2.37.5(k)		Last Update
\$10.00	2nd Nov 2020	↻		✓		16th Nov 2020

5.4 Forms

To access the Forms display, select **Prudential-Settlements portal > Forms**.

The Forms display provides access to the following functionality (see Figure 21):

- **Prepayments:** to submit notification to AEMO of a voluntary prepayment funds transfer.
- **Standing Prepayments:** to activate or deactivate the standing prepayment agreement with AEMO.
- **Notices of Disagreement:** to submit any disagreement information in accordance with the disagreement deadline published in the Settlement Timeline.

5.4.1 Prepayments Form

The standard Prepayment direction form has been integrated into the Forms tab of the Prudential-Settlements portal (see Figure 22).

A standard Prepayment direction may be submitted by any Participant User with settlements permissions enabled in WEMS MPI.

This feature allows Participants to:

- Submit notification to AEMO of a voluntary Prepayment amount and date of payment; and,
- Track the status of a submission through the dashboard.

5.4.1.1 Submit a new Standard Prepayment Direction

The steps to submit a new Prepayment direction are:

1. Select **Prudential-Settlements portal > Forms > Prepayments**.
2. Click the Submit button (see Figure 23).
3. Review the terms and conditions (see also Section 5.4.2).
4. Click Next to continue, or Cancel to exit without saving (see Figure 24).
5. Enter the following information in the dialog box (see Figure 25):
 - 1.1. **Prepayment Amount:** Enter the amount (in AUD) that will be transferred to AEMO. The amount must be greater than zero.
 - 1.2. **Date of Prepayment:** Select the date the payment will be provided to AEMO. The date must be today or in the future.
 - 1.3. **Austraclear or Bank:** Select the method by which the payment will be transferred to AEMO. Only one method is permitted per prepayment.
6. Click Submit to provide the information to AEMO, or Cancel to exit without saving.
7. A green confirmation message is displayed on the screen (see Figure 26).
8. Click the “X” to close.

The submitted Prepayment is available to view in the Prepayments tab, with status “Payment Pending” (see Figure 27).

Note

Once cleared funds are received by AEMO, the Participant’s prepayment balance will be updated by the prescribed amount and the status will change to “Payment Received”.

5.4.1.2 Withdraw an existing Prepayment

A Participant may wish to withdraw an existing Prepayment direction if they made an error with the prepayment amount or date of payment. An existing Prepayment direction can only be withdrawn if the status is “Payment Pending”.

The steps to withdraw a Prepayment direction are:

1. Select **Prudential-Settlements portal > Forms > Prepayments**.
2. Locate the relevant Prepayment direction and click the Withdraw button for that row (see Figure 27).
3. The withdrawn Prepayment direction is available to view in the Prepayments tab, with status “Withdrawn” (see Figure 28).

No further action can be taken on a withdrawn Prepayment direction.

Note

Withdrawal only notifies AEMO that the Participant no longer intends to transfer the prepayment amount to AEMO. It does not stop any funds transfers that are already in progress (i.e. If the Participant has an Austraclear trade or a bank transfer authorised, then withdrawal will not prevent the trade from settling).

Figure 21 Forms tab



Figure 22 Prepayments tab

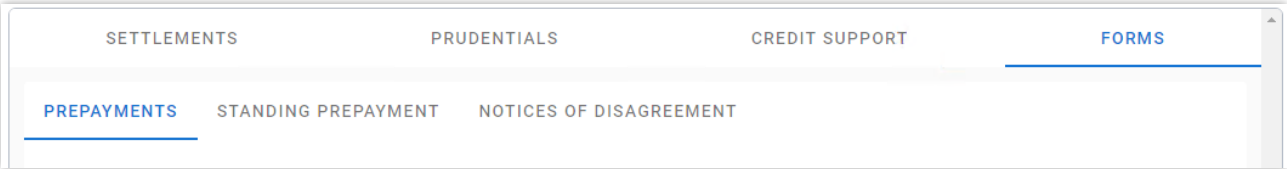


Figure 23 Submit button for new Prepayment

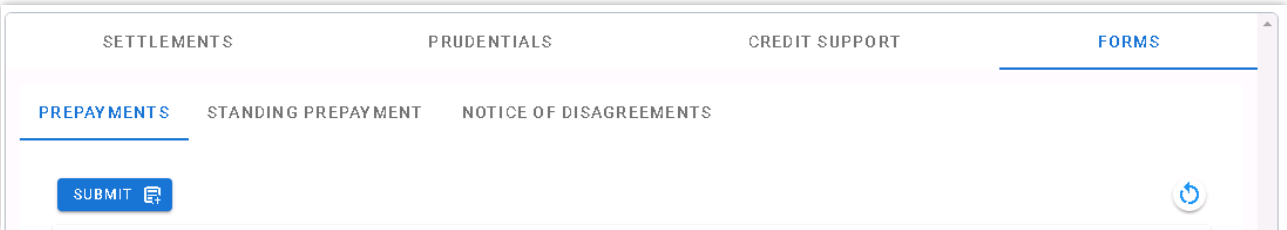


Figure 24 Standard Prepayment Direction Form page 1

The Relevant Participant has paid or will pay the Prepayment Amount in a cash sum in Australian dollars into the account nominated by AEMO (as specified on the AEMO Website for this purpose from time to time) on the Date of Prepayment.

The Relevant Participant confirms that the payment of the Prepayment Amount is for the purposes of:

- reducing the Relevant Participant's Outstanding Amount, and thereby increasing its Trading Margin, on each day from the first Trading Day on which the Outstanding Amount is calculated after AEMO receives the Prepayment Amount until the Trading Day on which the Prepayment Amount is fully applied towards amounts payable by the Market Participant to AEMO; and
- being applied to amounts payable by the Relevant Participant to AEMO as specified in the Invoice for the next Settlement Statement.

The Relevant Participant irrevocably directs AEMO to apply the Prepayment Amount towards amounts payable by the Relevant Participant to AEMO, as specified in the Invoice for the next Settlement Statement; and, to the extent there is a residual amount, as specified in subsequent Invoices for Settlement Statements.

The Relevant Participant acknowledges and agrees that any interest that accrues on the Prepayment Amount will not be for the benefit of the Relevant Participant.

The Relevant Participant confirms and certifies that this Prepayment Direction is provided by an authorised representative of the Relevant Participant.


CANCELNEXT

Figure 25 Standard Prepayment Direction Form page 2


Standard Prepayment Direction Form

Market Participant:

Short Name




Authorised Representative




AEMO:

Name



Australian Energy Market Operator Limited

ABN




94 072 010 327

Prepayment Amount

\$

Date of Prepayment




15/09/2021

☒ Austraclear

☐ Bank

CANCELSUBMIT

Figure 26 Confirmation of successful Prepayment submission



Thank you. This confirms receipt of your Prepayment Direction. Once cleared funds are received by AEMO, your prepayment balance will be updated by the prescribed amount.




Figure 27 Prepayments dashboard

SETTLEMENTS

PRUDENTIALS

CREDIT SUPPORT

FORMS

PREPAYMENTS

STANDING PREPAYMENT

NOTICE OF DISAGREEMENTS

SUBMIT

Id	Amount	Date of Prepayment	Payment Type	Submitted By	Status	Date Received	Updated By	Actions
12	\$5,000.00	22/09/2021	BANK		Payment Pending	-		WITHDRAW
11	\$25,000.00	17/09/2021	AUSTRACLEAR		Payment Pending	-		WITHDRAW
8	\$999.88	10/09/2021	AUSTRACLEAR		Payment Received	10/09/2021		

<

1

>

Figure 28 Withdrawn Prepayment direction

PREPAYMENTS

STANDING PREPAYMENT

NOTICE OF DISAGREEMENTS

SUBMIT

Id	Amount	Date of Prepayment	Payment Type	Submitted By	Status	Date Received	Updated By	Actions
16	\$1,000.00	16/09/2021	AUSTRACLEAR		Withdrawn	-		

5.4.2 Prepayment Terms and Conditions

The terms and conditions for a standard Prepayment direction as displayed in the WEMS MPI forms are reproduced below for convenience only and may differ from the current terms and conditions in WEMS MPI. AEMO reserves the right to update the terms and conditions in WEMS MPI at any time and the Market Participant or Network Operator should always review the applicable terms and conditions when submitting a prepayment.

A Market Participant or Network Operator (the Relevant Participant) may make a voluntary prepayment to AEMO at any time for the purposes of (a) reducing the Relevant Participant's Outstanding Amount; and (b) being applied to amounts payable by the Relevant Participant to AEMO, as specified in the Invoice, for the next Settlement Statement. A Relevant Participant must provide a completed prepayment direction and cleared funds to AEMO [WEM Procedure: Prudential Requirements].

Declaration:

Words having a defined meaning in the Wholesale Electricity Market Rules have the same meaning when used in this Prepayment Direction. The Relevant Participant has paid or will pay the Prepayment Amount in a cash sum in Australian dollars into the account nominated by AEMO (as specified on the AEMO Website for this purpose from time to time) on the Date of Prepayment.

The Relevant Participant confirms that the payment of the Prepayment Amount is for the purposes of:

- *reducing the Relevant Participant's Outstanding Amount, and thereby increasing its Trading Margin, on each day from the first Trading Day on which the Outstanding Amount is calculated after AEMO receives the Prepayment Amount until the Trading Day on which the Prepayment Amount is fully applied towards amounts payable by the Market Participant to AEMO; and*
- *being applied to amounts payable by the Relevant Participant to AEMO as specified in the Invoice for the next Settlement Statement.*

The Relevant Participant irrevocably directs AEMO to apply the Prepayment Amount towards amounts payable by the Relevant Participant to AEMO, as specified in the Invoice for the next Settlement Statement; and, to the extent there is a residual amount, as specified in subsequent Invoices for Settlement Statements.

The Relevant Participant acknowledges and agrees that any interest that accrues on the Prepayment Amount will not be for the benefit of the Relevant Participant.

The Relevant Participant confirms and certifies that this Prepayment Direction is provided by an authorised representative of the Relevant Participant.

5.4.3 Standing Prepayment Agreement Form

The Standing Prepayment agreement is integrated into the Forms tab of the Prudential-Settlements portal.

A Standing Prepayment agreement may be submitted by any Participant User with settlements permissions enabled in WEMS MPI.

This feature allows Participants to:

- Activate a new Standing Prepayment agreement with AEMO.
- View the status of their Standing Prepayment agreement through the dashboard.
- Deactivate an active Standing Prepayment agreement or activate an inactive Standing Prepayment agreement.
- View the terms of the Standing Prepayment agreement.

Note

A Standing Prepayment agreement is effective immediately when the status is changed to "Active" and ceases immediately when the status is changed to "Inactive".

5.4.3.1 Activate a new Standing Prepayment

A Participant can only have one Standing Prepayment agreement with AEMO. If no agreement is recorded in the Prudential-Settlements portal, then a new agreement may be created and activated.

The steps to create and activate a new Standing Prepayment agreement are:

1. Select **Prudential-Settlements portal > Forms > Prepayments**.
2. Click the Activate button (see Figure 30).
3. Review the terms and conditions (see also Section 5.4.3.4).

- 4. Click Next to continue or Cancel to exit without saving (see Figure 31).
- 5. Review the hardcoded fields (see also Section 5.4.3.4).
- 6. Click Activate to activate the agreement with AEMO or Cancel to exit without saving (see Figure 32).
- 7. The active Standing Prepayment agreement is available to view in the Standing Prepayments tab, with status “Active” (see Figure 33).

To deactivate the agreement, refer to Section 5.4.4.2.

Note

Once a Standing Prepayment agreement is activated, the terms and conditions can be viewed by clicking the “View Terms” button (see Figure 30), or by referring to Section 5.4.3.4., and the “Activate” button is greyed out and can no longer be used.

5.4.3.2 Deactivate an existing Standing Prepayment

A Standing Prepayment can only be deactivated if the status is “Active”. The steps to deactivate an existing Standing Prepayment are:

- 1. Select **Prudential-Settlements portal > Forms > Prepayments.**
- 2. Click the Deactivate button (see Figure 33).

The inactive Standing Prepayment agreement is available to view in the Standing Prepayments tab, with status “Inactive” (see Figure 34).

5.4.3.3 Activate an existing Standing Agreement

A Standing Prepayment can only be activated if the status is “Inactive”. The steps to activate an existing Standing Prepayment are:

- 1. Select **Prudential-Settlements portal > Forms > Prepayments.**
- 2. Click the Activate button (see Figure 34).

The active Standing Prepayment agreement is available to view in the Standing Prepayments tab, with status “Active” (see Figure 33).

Figure 29 Standing Prepayment agreement tab

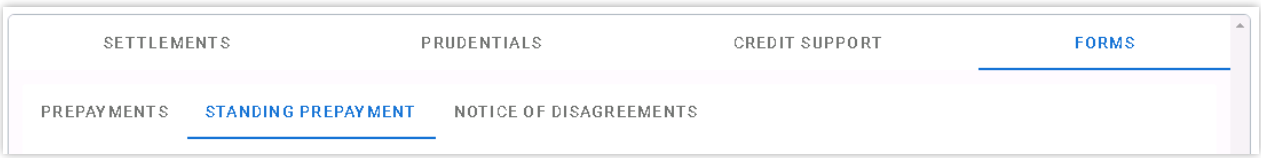


Figure 30 Standing Prepayment buttons

PREPAYMENTS

STANDING PREPAYMENT

NOTICE OF DISAGREEMENTS

ACTIVATE

VIEW TERMS

Figure 31 Standing Prepayment Agreement page 1

Application of Prepayment Amount:
Words having a defined meaning in the WEM Rules have the same meaning when used in this prepayment direction.

The Relevant Participant has paid or will pay the Prepayment Amount in a cash sum in Australian dollars into the account nominated by AEMO (as specified on the AEMO Website for this purpose from time to time) on the Date of Prepayment.

The Relevant Participant confirms that the payment of the Prepayment Amount is for the purposes of:

- reducing the Relevant Participant's Outstanding Amount, and thereby increasing its Trading Margin, on each day from the first Trading Day on which the Outstanding Amount is calculated after AEMO receives the Prepayment Amount until the Trading Day on which the Prepayment Amount is fully applied towards amounts payable by the Relevant Participant to AEMO; and
- being applied to amounts payable by the Relevant Participant to AEMO as specified in the Invoice for the next Settlement Statement.

The Relevant Participant irrevocably directs AEMO to apply the Prepayment Amount towards amounts payable by the Relevant Participant to AEMO, as specified in the Invoice for the next Settlement Statement; and, to the extent there is a residual amount, as specified in subsequent Invoices for Settlement Statements.

The Relevant Participant acknowledges and agrees that any interest that accrues on the Prepayment Amount will not be for the benefit of the Relevant Participant.

The Relevant Participant confirms and certifies that this prepayment direction is provided by an authorised representative of the Relevant Participant.

CANCEL

NEXT

Figure 32 Standing Prepayment Agreement page 2

Standing Prepayment Direction Form

Market Participant:

Name

WPGENER

Authorised Representative

AEMOTESTER

AEMO:

Name

Australian Energy Market Operator Limited

ABN

94 072 010 327

Prepayment Amount

\$ Amount payable specified in the Invoice for the adjusted Settlement Statement

Date of Prepayment

Settlement Date for the Invoice for the adjusted Settlement Statement

CANCEL

ACTIVATE

Figure 33 Active Standing Prepayment agreement

PREPAYMENTS **STANDING PREPAYMENT** NOTICE OF DISAGREEMENTS

ACTIVATE **VIEW TERMS**

Id	Date Submitted ↓	Submitted By	Status	Updated By	Actions
9	16/09/2021 11:00		Active		DEACTIVATE

Figure 34 Inactive Standing Prepayment agreement

PREPAYMENTS **STANDING PREPAYMENT** NOTICE OF DISAGREEMENTS

ACTIVATE **VIEW TERMS**

Id	Date Submitted ↓	Submitted By	Status	Updated By	Actions
9	16/09/2021 11:00		Inactive		ACTIVATE

5.4.3.4 Standing Prepayment Terms and Conditions

The terms and conditions for a Standing Prepayment agreement as displayed in WEMS MPI are reproduced below for convenience only and may differ from the current terms and conditions in WEMS MPI. AEMO reserves the right to update the terms and conditions in WEMS MPI at any time and the Market Participant or Network Operator should always review the applicable terms and conditions when activating a prepayment.

Standing Prepayment Direction:

The Market Participant or Network Operator (the Relevant Participant) submits this standing prepayment direction for the purposes of the Wholesale Electricity Market Rules (WEM Rules) and the WEM Procedure: Prudential Requirements.

This standing prepayment direction applies when (and only when):

- AEMO issues adjusted Settlement Statements to the Relevant Participant in accordance with the WEM Rules;
- AEMO issues an Invoice for each adjusted Settlement Statement in accordance with the WEM Rules; and
- the net amount payable under the Invoices (Net Adjustment Amount) is an amount payable by AEMO to the Relevant Participant.

Unless otherwise directed by the Relevant Participant in writing, the Relevant Participant directs AEMO to apply the Net Adjustment Amount in the following manner on the Settlement Date for the Invoice:

- The Net Adjustment Amount is deemed to be a “Prepayment Amount” for the purposes of the prepayment direction form.
- AEMO must apply the Net Adjustment Amount (as a deemed “Prepayment Amount”) towards amounts payable by the Relevant Participant to AEMO in the manner specified in the prepayment direction form.

This standing prepayment direction applies from the date this form is submitted in WEMS and remains in effect until either party notifies the other party in writing that it no longer applies.

Application of Prepayment Amount:

Words having a defined meaning in the WEM Rules have the same meaning when used in this prepayment direction.

The Relevant Participant has paid or will pay the Prepayment Amount in a cash sum in Australian dollars into the account nominated by AEMO (as specified on the AEMO Website for this purpose from time to time) on the Date of Prepayment.

The Relevant Participant confirms that the payment of the Prepayment Amount is for the purposes of:

- *reducing the Relevant Participant's Outstanding Amount, and thereby increasing its Trading Margin, on each day from the first Trading Day on which the Outstanding Amount is calculated after AEMO receives the Prepayment Amount until the Trading Day on which the Prepayment Amount is fully applied towards amounts payable by the Relevant Participant to AEMO; and*
- *being applied to amounts payable by the Relevant Participant to AEMO as specified in the Invoice for the next Settlement Statement.*

The Relevant Participant irrevocably directs AEMO to apply the Prepayment Amount towards amounts payable by the Relevant Participant to AEMO, as specified in the Invoice for the next Settlement Statement; and, to the extent there is a residual amount, as specified in subsequent Invoices for Settlement Statements.

The Relevant Participant acknowledges and agrees that any interest that accrues on the Prepayment Amount will not be for the benefit of the Relevant Participant.

The Relevant Participant confirms and certifies that this prepayment direction is provided by an authorized representative of the Relevant Participant.

Prepayment Amount:

Amount payable specified in the Invoice for the adjusted Settlement Statement.

Date of Prepayment:

Settlement Date for the Invoice for the adjusted Settlement Statement.

5.4.4 Notice of Disagreement Form

The Notice of Disagreement form has been integrated into the Forms tab of the Prudential-Settlements portal (see Figure 35).

A Notice of Disagreement may be submitted by any Participant User with settlements permissions enabled in WEMS MPI.

This feature allows Participants to:

- Submit a new Notice of Disagreement in accordance with the [WEM Procedure: Settlement](#).
- Track the progress of a submission through the dashboard.
- Respond to AEMO when it requests more information in accordance with the WEM Rules.

- View the revised due date when AEMO extends the deadline to respond to a Notice of Disagreement in accordance with the WEM Rules.
- Download the decision document when AEMO completes its assessment and provides a response in accordance with the WEM Rules.
- Receive automated email notifications in relation to a submission.


Figure 35 Notices of Disagreement tab

5.4.4.1 Submitting a new Notice of Disagreement

A Notice of Disagreement may be submitted by any Participant User with settlements permissions enabled in WEMS MPI.

The steps to submit a Notice of Disagreement are:

1. Select Prudential-Settlements portal > Forms > Notices of Disagreement.
2. Click the Submit button (see Figure 35).
3. The participant Short Name and Authorised Representative are automatically pre-filled based on the details of the logged-in user.
4. Enter the following information in the dialog box:
 - 4.1. **Market:** Select Non-STEM, STEM or WEM.
 - 4.2. **Invoice Period:** Select the Trading Month or Trading Week. Only one period can be selected. If the disagreement relates to multiple periods, then submit a new disagreement for each.
 - 4.3. Click Next to continue or Cancel to exit without saving.
 - 4.4. **Reason for Disagreement:** Enter a brief description. Please provide sufficient detail outlining the submission. The information to be provided is outlined in the WEM Rules.
 - 4.5. **Expected Settlement Amount:** Enter a dollar value if known. Provide any justification for the value in the supporting documents fields.
 - 4.6. **Spreadsheet:** Attach supporting evidence. Only one attachment may be provided.
 - 4.7. **Additional Information (optional):** Attach any additional information that may support the disagreement. Multiple attachments may be provided.
5. Click Submit to provide the Notice of Disagreement to AEMO or Cancel to exit without saving.



Once a Notice of Disagreement has been submitted, an automated acknowledgement will be emailed to the Main Contact user, the Participant User making the submission, and copied to WA Prudentials and Settlements (see Figure 39).

The submitted Notice of Disagreement is available to view in the Notice of Disagreements tab, with status “AEMO Assessment”.

5.4.4.2 AEMO Request for Information

AEMO may, if it reasonably considers it is required to assess or resolve a Notice of Disagreement, request clarification or further information regarding any aspect of the Notice of Disagreement in accordance with the WEM Rules.

If AEMO requests clarification or further information:

- AEMO will change the Notice of Disagreement status to “Information Requested” (see Figure 41).
- AEMO may attach information to the “AEMO Documents” field and/or include a brief message.
- An automated notification will be emailed to the Main Contact user, the Participant User making the submission, and copied to WA Prudentials and Settlements.

The steps to provide more information to AEMO are:

1. Select **Prudential-Settlements portal > Forms > Notices of Disagreement**.
2. Locate the relevant submission (see Figure 40).
3. Review any attached information in the “AEMO Documents” field.
4. Click the Resubmit button (see Figure 41).
5. Review any message provided by AEMO in the “Request for Further Information” field.
6. Attach the required documents in the “Additional information” field.
7. Click Resubmit to provide the information to AEMO, or Cancel to exit without saving (see Figure 42).

Once a Notice of Disagreement has been resubmitted, an automated acknowledgement will be emailed to the Main Contact user, the Participant User making the submission, and copied to WA Prudentials and Settlements.

The resubmitted Notice of Disagreement is available to view in the Notice of Disagreements tab, with status “AEMO Assessment”.

5.4.4.3 AEMO Extends the Deadline to Respond

AEMO may extend the deadline to respond to a Notice of Disagreement where it requires additional time to respond to the Notice of Disagreement, including additional time to assess relevant information or determine the actions it will take in accordance with the WEM Rules.

If AEMO extends the deadline to respond to a Notice of Disagreement:

- AEMO will change the “Due Date” field to the revised date.
- AEMO may request more information.
- AEMO will email an automated notification to the Main Contact user, the Participant User making the submission, and copied to WA Prudentials and Settlements (see Figure 43).

5.4.4.4 AEMO Responds to Notice of Disagreement

AEMO must, as soon as practicable, but within 20 Business Days of receipt of a Notice of Disagreement respond to a Rule Participant who issued a Notice of Disagreement indicating the actions (if any) AEMO will take in response to the Notice of Disagreement in accordance with the WEM Rules.

When AEMO responds to a Notice of Disagreement:

- AEMO will attach a decision document to the “AEMO Documents” field.
- AEMO will email an automated notification to the Main Contact user, the Participant User making the submission, and copied to WA Prudentials and Settlements.

To view AEMO’s response to a Notice of Disagreement:

1. Select **Prudential-Settlements portal > Forms > Notices of Disagreement**.
2. Locate the relevant submission.
3. Click on the green icon in the “AEMO Documents” field.

Any further correspondence will occur outside of the Prudential-Settlements portal.

Figure 36 Submitting a new Notice of Disagreement

The screenshot shows a web interface with a top navigation bar containing 'SETTLEMENTS', 'PRUDENTIALS', 'CREDIT SUPPORT', and 'FORMS'. Under 'FORMS', there are sub-tabs: 'PREPAYMENTS', 'STANDING PREPAYMENT', and 'NOTICE OF DISAGREEMENTS'. The 'NOTICE OF DISAGREEMENTS' tab is active. On the left, a blue 'SUBMIT' button with a document icon is highlighted with a red rectangle. On the right, there is a circular refresh icon. Below the tabs is a table with the following headers: 'Id', 'Submitted ↓', 'Market', 'Period', 'Amount', 'Status', 'AEMO Documents', 'Due Date', and 'Actions'. The table body contains the text 'No data available' and two navigation arrows, '<' and '>'.

Id	Submitted ↓	Market	Period	Amount	Status	AEMO Documents	Due Date	Actions
No data available								

Figure 37 Notice of Disagreement Form page 1

Notice of Disagreement Form

General Information:

A Rule Participant may issue a Notice of Disagreement in respect of a Settlement Statement by the relevant Settlement Disagreement Deadline. A Rule Participant may lodge a Notice of Disagreement with AEMO pertaining to any amount related to the relevant Settlement Statement. A Notice of Disagreement must be submitted to AEMO in accordance with the WEM Procedure: Settlements.

If you wish to submit a Notice of Disagreement to AEMO, then please provide the following details.

Participant Information:

Short Name:

(Prefilled)

Authorised Representative:

(Prefilled)

Market

Invoice Period

CANCEL

NEXT

Figure 38 Notice of Disagreement Form page 2

Notice of Disagreement Form

Reason for disagreement

0

Expected Settlement Amount

\$ 0

Spreadsheet

Additional information (optional)

CANCEL

SUBMIT

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Figure 39 Notice of Disagreement acknowledgement email

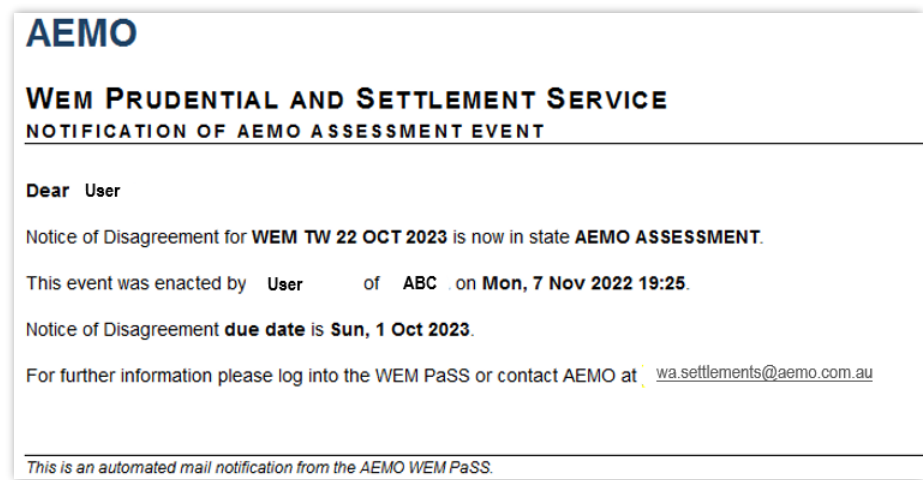


Figure 40 Notice of Disagreement dashboard

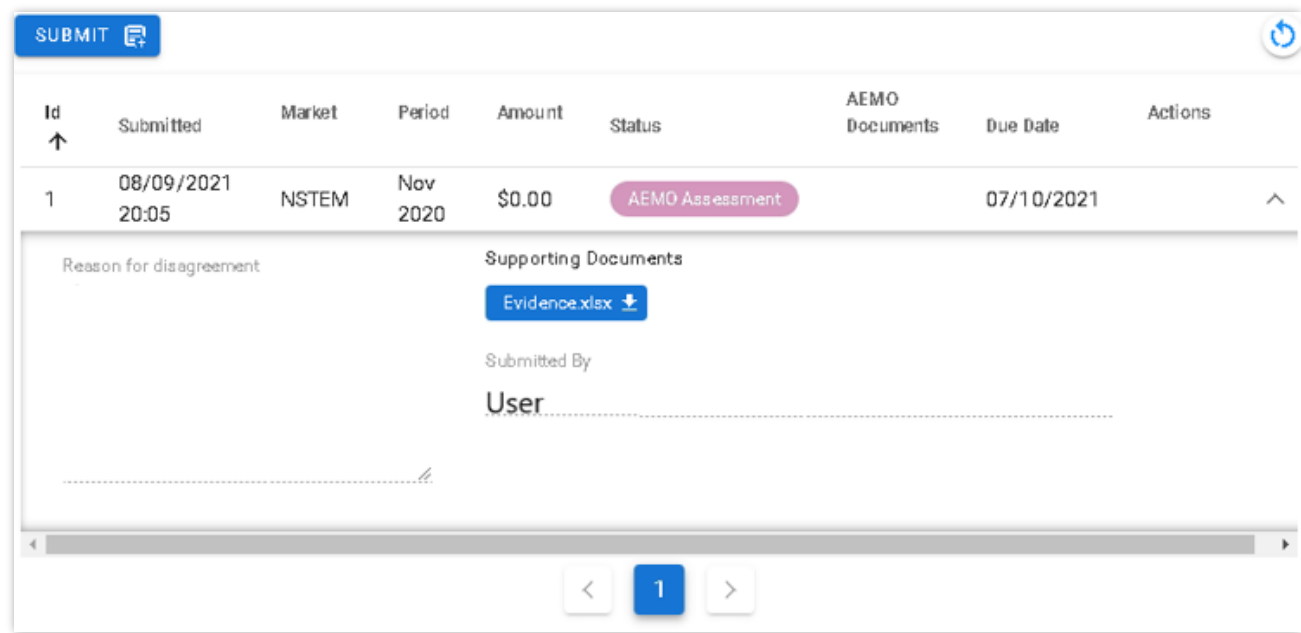


Figure 41 Resubmitting a Notice of Disagreement

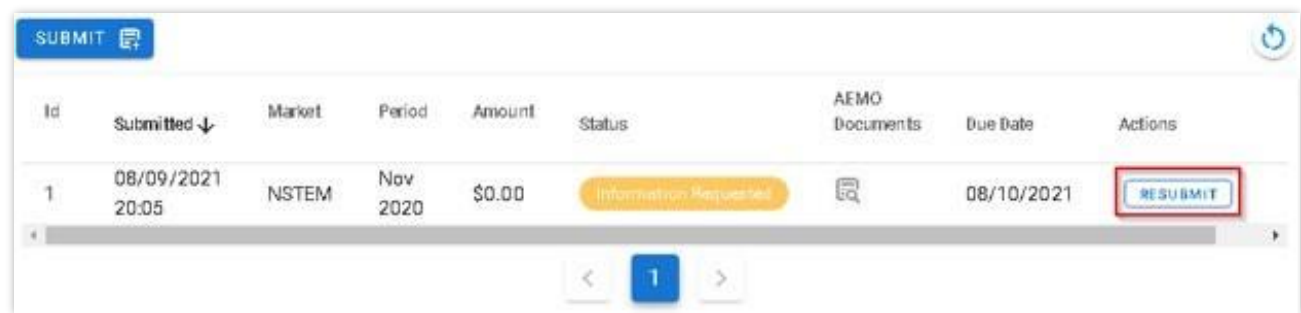


Figure 42 Request for Further Information dialog box

Resubmit Notice of Disagreement



Request for Further Information:
Hi, can you please provide AEMO with the following information to aid in assessing this Notice of Disagreement - A-B



Additional information

SCADA.xlsx

X

CANCEL

RESUBMIT

Figure 43 Notice of Disagreement due date email

AEMO

WEM PRUDENTIAL AND SETTLEMENT SERVICE

NOTIFICATION OF AEMO ASSESSMENT EVENT

Dear User

Notice of Disagreement for **WEM TW 22 OCT 2023** is now in state **AEMO ASSESSMENT**.

This event was enacted by User of ABC on Mon, 7 Nov 2022 19:25.


Notice of Disagreement **due date is Sun, 1 Oct 2023.**

For further information please log into the WEM PaSS or contact AEMO at wa.settlements@aemo.com.au

This is an automated mail notification from the AEMO WEM PaSS.

Figure 44 AEMO response to a Notice of Disagreement

SUBMIT

Id	Submitted	Market	Period	Amount	Status	AEMO Documents	Due Date	Actions
1	08/09/2021 20:05	NSTEM	Nov 2020	\$0.00	Completed		11/10/2021	▼

<

1

>



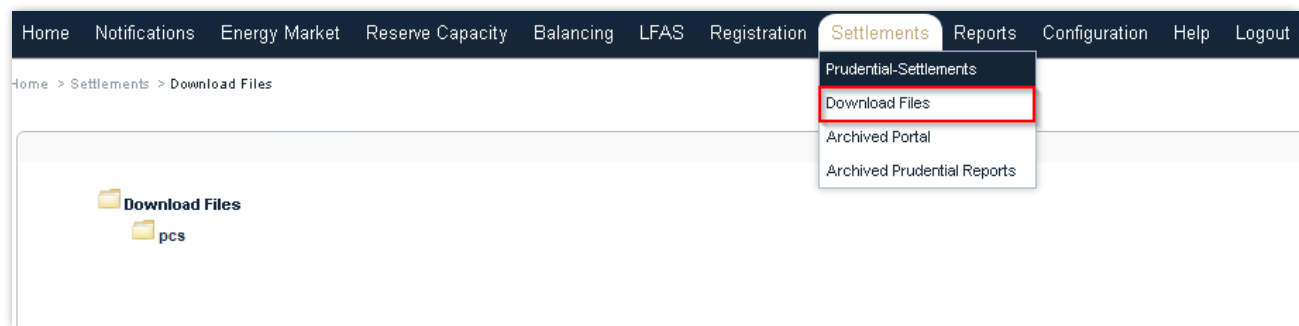
6 Download Files

To access the Download Files display, select **Settlements > Download Files** (see Figure 45).

The Download Files display allows users to download the following:

- PCS documents for RCM Settlements and WEMS Settlements for Invoices issued prior to 1 August 2021.
- PCS document for the IRCR calculation prior to Trading Day 1 October 2023.
- WEM Metering, Settlement and Prudential Calculation Formulation prior to Trading Day 1 October 2023.

Figure 45 Download Files menu





7 Archived Portal

This section applies to Invoices, including Adjustment Invoices, issued prior to 1 August 2021.

To access settlement information for Invoices issued prior to 1 August 2021, select **Settlements > Archived Portal** (see Figure 46 and Figure 47).

Use the following tabs to select the required settlement information:

- Invoices
- Statements
- PIRs
- IRCR Log

Use the drop-down menu to select one of the following settlement mechanisms:

- DSM
- IRCR
- NSTEM
- STEM

Figure 46 Archived Settlements Portal menu

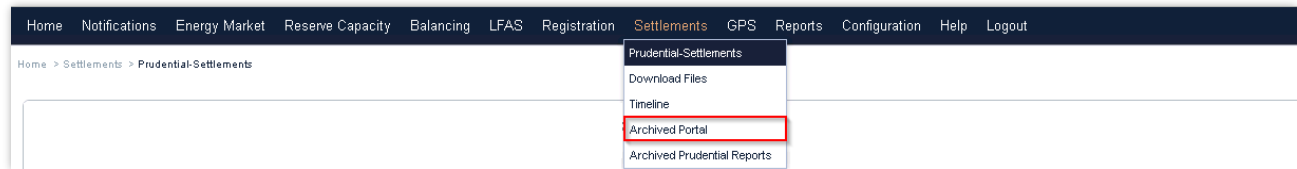
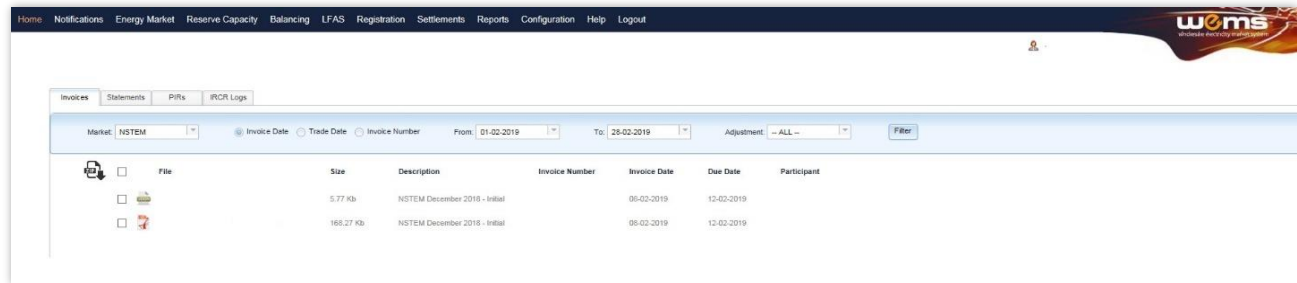


Figure 47 Archived Settlements Portal display





8 Archived Prudential Reports

This section applies to prudential information for Trading Days prior to 24 August 2020.

To access prudential information for Trading Days prior to 24 August 2020, select **Settlements >Archived Prudential Reports** (see Figure 48).

The Archived Prudential Reports display fields are described in Table 3.

Figure 48 Archived Prudential Reports display

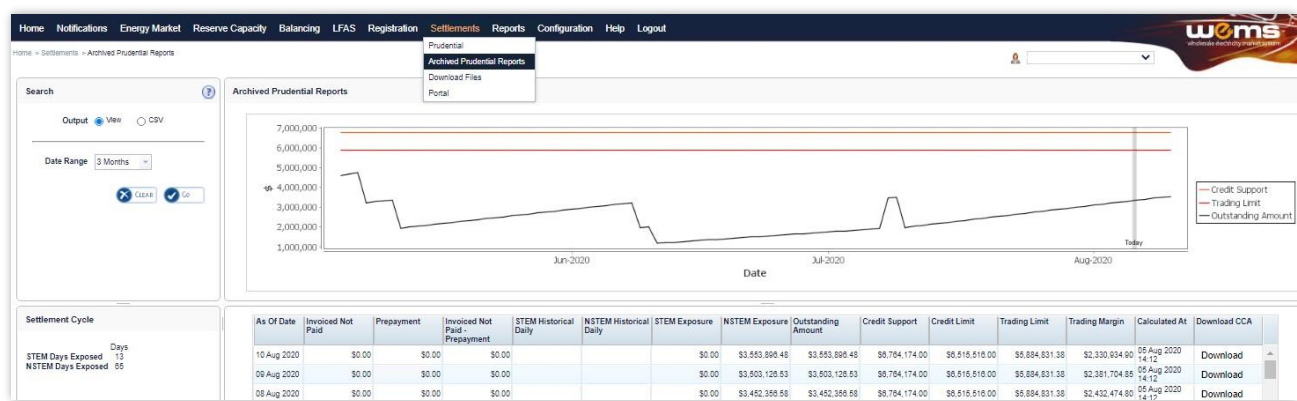


Table 3 Archived Prudential Reports display field descriptions

Dashboard Item	Description
Search	Allows the output to be Viewed on screen or Downloaded for set Date Ranges (3, 6, 12 or 24 months)
Help ?	Provides definitions for items in the Prudential Security Graph and Table
Settlement Cycle	Provides the current STEM Days Exposed and NSTEM Days Exposed
Prudential Security Graph	Displays the currently selected Participants Prudential Performance over the last 6 months
Prudential Security Table	Displays the currently selected Participants Prudential security information



9 APIs

AEMO uses a third-party Swagger platform to document the Prudential and Settlements APIs and share the information with Participants.

To utilise the APIs, a web certificate must be obtained from AEMO via email to wa.operations@aemo.com.au. Web certificates are issued by DigiCert and are replaced annually. Participants using web services should ensure their systems trust certificates issued by this authority.

Table 4 Documentation for APIs

API Information	Environment	URL
Swagger	Production	https://wems.aemo.com.au/prudential/api/docs/
	Market Trial	https://wems-mkt.aemo.com.au/prudential/api/docs/
Hostnames	Production	https://wems.aemo.com.au
	Market Trial	https://wems-mkt.aemo.com.au

A1. Glossary

Term	Definition
AEMO	Australian Electricity Market Operator
Formulation	WEM Metering, Settlement and Prudential Calculation Formulation
IRCR	Individual Reserve Capacity Requirement
MPA	Market Participant Administrator
MPI	Market Participant Interface
Participant	In the context of this document, Participant is used in general terms to mean any registered Rule Participant, the Economic Regulation Authority or the Coordinator of Energy, unless otherwise specified
RCM	Reserve Capacity Mechanism
RSA SecurID Token	Third party security token for performing two-factor authentication for a user to a network source
STEM	Short Term Energy Market
WEM	Wholesale Electricity Market
WEM PaSS	Wholesale Electricity Market Prudential and Settlement Service
WEM Rules	Wholesale Electricity Market Rules
WEMS	Wholesale Electricity Market Systems