

GUIDE TO GAS SUPPLY HUB PRUDENTIAL DASHBOARD

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Documents made obsolete

The release of this document changes any version of the Guide to Gas Supply Hub Prudential Dashboard.

Distribution

Available to the public.

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Prudentials and Gas Retail

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Notes

No notes

Further information

For further information, please visit www.aemo.com.au or contact:

AEMO Information and Support Hub

Phone: 1300 AEMO 00 (1300 236 600) and follow the prompts.

Email: supporthub@aemo.com.au

Contents

1 Introduction	1
1.1 Purpose.....	1
1.2 Audience.....	1
1.3 How to use this guide.....	1
1.4 What's in this guide?.....	1
2 About GSH Prudential Dashboard	2
2.1 What the GSH Prudential Dashboard is for.....	2
2.2 How do you use the GSH Prudential Dashboard.....	3
2.3 Who can use the GSH Prudential Dashboard.....	4
2.4 User rights access.....	4
2.5 System requirements.....	4
2.6 Accessing the GSH Prudential Dashboard.....	5
3 GSH Prudential Dashboard Interface	6
3.1 Dashboard title.....	7
3.2 Download prudential run data.....	7
3.3 Trading status.....	8
3.4 Exposure percentage.....	8
3.5 Estimated market exposure.....	9
3.5.1 Trading limit.....	9
3.5.2 Trading margin.....	9
3.5.3 Outstandings amount.....	9
3.5.4 Settlements exposure amount.....	10
3.5.5 Forward exposure amount.....	10
3.5.6 Security deposits.....	10
3.5.7 Prudential exposure.....	10
3.5.8 Exposure percentage.....	10
3.6 Bank guarantees.....	10
3.7 Historic exposure data.....	11
3.8 Calendar.....	12
3.9 Security deposits.....	13
3.10 Reallocations.....	14
3.11 Settlement exposure amounts.....	15
3.11.1 Settlement types explained.....	16

4	Needing Help	18
4.1	AEMO's Information and Support Hub	18
4.1.1	Contacting AEMO's Information and Support Hub	18
4.1.2	Information to provide AEMO	18
4.2	Feedback	19
5	References	20
5.1	Rules, law, and government bodies	20
5.2	AEMO's website	20
6	Index	21

Figures

Figure 1: energy market systems web portal home page	5
Figure 2: GSH Prudential Dashboard	6
Figure 3: dashboard title	7
Figure 4: trading status	8
Figure 5: exposure percentage	8
Figure 6: estimated market exposure	9
Figure 7: bank guarantees	11
Figure 8: historic exposure data	12
Figure 9: calendar	13
Figure 10: security deposits	14
Figure 11: reallocations	15
Figure 12: settlement exposure amounts	16

Glossary

These abbreviations, symbols, and special terms assist the reader's understanding of the terms used in this document. For definitions of these terms, the reader should always refer to the applicable market Rules.

A

AEMO

Australian Energy Market Operator

AEST

Australian Eastern Standard Time

B

Billing run type

There are two billing run types: Final and Revision.

Buyer

The trading participant submitting bids using the Exchange Trading System.

C

CSV

Comma-separated values; a file format for exchanging data. For help with the CSV format, see the "AEMO CSV Data Format Standard".

E

Energy market systems web portal

Single web portal interface to access AEMO's IT systems.

ETS

Exchange Trading System

ETS code

A unique code that is the same as the trading participant identifier used in the Exchange Trading System.

F

Forward exposure

An organisation's exposure dollar amount attributable to all forward dated submitted or executed orders or both, where the delivery dates are calculated based on submitted orders, executed trades, and reallocations where the delivery date is today and in the future (exclusive of GST). This is calculated at the time of each prudential run and makes up part of the prudential exposure.

G

GSH

Gas Supply Hub

M

Market participant

Refers to both trading participants and reallocators.

O

Order

A bid or offer.

Organisation

A member of exchange holding bank guarantees against which prudential exposure is determined. An organisation has associated trading participants in the GSH, or associated reallocation participants, and incurs settlement liabilities or credits or both.

P

PA

Participant administrator

Prudential exposure

Includes the organisation's settlement component in the last prudential run (outstandings dollar amount) and the forward exposure. This includes all forward exposure amounts (inclusive of the forward exposure GST amount) attributable to its associated trading participants' submitted or executed orders or both, and participants' authorised reallocations, that are entered into since the last initial settlement run.

R

Rules

The National Gas or Electricity rules.

S

Seller

Trading participant submitting offers using the Exchange Trading System.

Settlement run type

There are four settlement run types: Initial, Final, Revision and Adjustment.

T

Trading participant

A GSH registered trading participant associated with an organisation having a participant ETS code.

1 Introduction

1.1 Purpose

This guide provides an understanding of the Gas Supply Hub (GSH) web interface in the energy market system's web portal. It describes the information on the dashboard so market participants can interpret and manage their prudential position to satisfy the GSH prudential requirements.

This document is written in plain language for ease of reading. Where there is a discrepancy between the Rules or the [Exchange Agreement](#), and information or a term in this document, the Rules or Exchange Agreement take precedence.

1.2 Audience

This guide is relevant to GSH market participants requiring an understanding of the GSH Prudential Dashboard web interface in the energy market system's web portal.

1.3 How to use this guide

Use this guide to assist your understanding of the GSH Prudential Dashboard.

[Text in this format](#), indicates a direct hyperlink with further details of the resource listed in "References" on page 20.

1.4 What's in this guide?

- Chapter 2 "About GSH Prudential Dashboard" on page 2 explains the GSH Prudential Dashboard, who it is for, and how to use it.
- Chapter 3 "GSH Prudential Dashboard Interface" on page 6 explains the elements in the GSH Prudential Dashboard.
- Chapter 4 "Needing Help" on page 18 provides details for contacting AEMO if you require assistance.
- Chapter 5 "References" on page 20 contains a list of references mentioned throughout this guide and where to find them.

2 About GSH Prudential Dashboard

This chapter explains what the GSH Prudential Dashboard is for, who can use it, and how to use it.

In this chapter:

2.1 What the GSH Prudential Dashboard is for	2
2.2 How do you use the GSH Prudential Dashboard	3
2.3 Who can use the GSH Prudential Dashboard	3
2.4 User rights access	4
2.5 System requirements	4
2.6 Accessing the GSH Prudential Dashboard	5

2.1 What the GSH Prudential Dashboard is for

AEMO operates the Gas Supply Hub market with a strong prudential framework, so all market participants can have high confidence in receiving payments without delay on the payment date. A critical element of the framework is the concept of prudential exposure. This is the amount a market participant must cover using bank guarantees and security deposits to ensure AEMO can settle all liabilities, including forward trades exposure, should the market participant's position be closed out.

To assess that prudential obligations are satisfied, AEMO compares prudential exposures to the trading limit for each market participant at the start of each business day. If the prudential exposure exceeds the trading limit for consecutive days, then AEMO may issue a call notice to the market participant and halt its ability to trade for breaching the prudential framework under the GSH [Exchange Agreement](#). This acts as an incentive for each market participant to manage their prudential exposure within their trading limit.

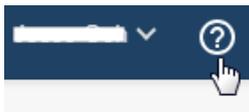
The GSH Prudential Dashboard allows GSH market participants to make informed prudential management decisions by providing useful information about their accrued financial position with AEMO. To provide an up-to-date snapshot of prudential information, the dashboard is updated every time a new prudential run becomes available throughout each business day. Ad hoc prudential runs that update the dashboard occur if there is a reallocation submission on a weekend or during one of Australia's national public holidays.

2.2 How do you use the GSH Prudential Dashboard

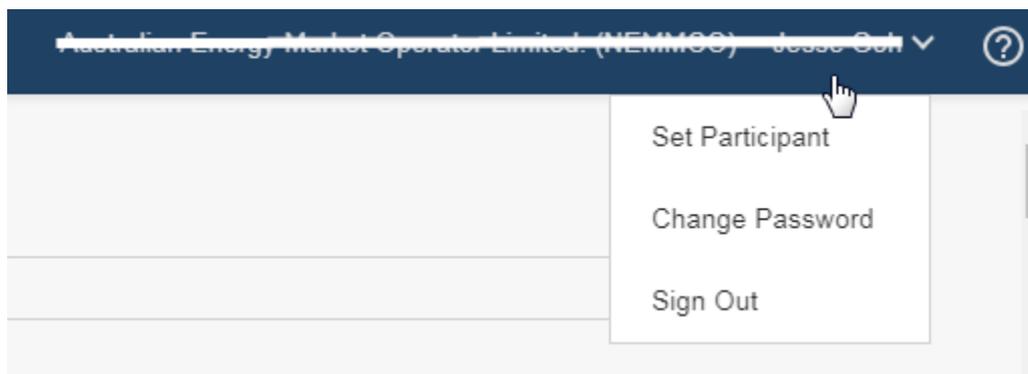
The GSH Prudential Dashboard is part of AEMO's energy market system's web portal. It is a web-based application accessed using MarketNet and a web browser.

You can also:

- Obtain online assistance from any of the GSH Prudential Dashboard menus by clicking **Help** in the top right-hand corner of the web portal.



- Read further information about the [Gas Supply Hub](#).
- See information for other participant IDs you have permission to access, using the Set Participant function. This function allows you to act for another participant without having to log out, change IDs, and log in again. For permission to see other participant IDs using Set Participant, see your company's Participant Administrator (PA).



2.3 Who can use the GSH Prudential Dashboard

Persons having access to the GSH Prudential Dashboard include registered market participants and AEMO.

2.4 User rights access

Your organisation's participant administrator (PA) grants you permission to use the GSH Prudential Dashboard. The entity required for access is:

- GSH - Prudential Dashboard

Where a participant user has user rights assigned by more than one participant, they interactively choose the participant they represent, using the **Set Participant** option.

For further information about user administration and the Set Participant option, see the [Guide to User Rights Managements](#).

2.5 System requirements

The GSH Prudential Dashboard is accessed using a web browser and requires:

- Microsoft Internet Explorer version 7 or later; some applications require Compatibility Mode enabled.
 - A monitor capable of 1024 x 768 screen resolution.
 - Access to MarketNet.
 - A user ID, password, and the website address where the application is located on AEMO's network, provided by your company's participant administrator.
 - A user ID, password, and access to the participant file server, provided by your company's participant administrator.
 - The GSH Prudential Dashboard application runs on both Windows and Unix-like operating systems.
-
- For more details about MarketNet, see [Guide to Information Systems](#).
-

2.6 Accessing the GSH Prudential Dashboard

To access the GSH Prudential Dashboard:

1. Using your web browser, access the energy market systems web portal, either:
 - Pre-production: <https://portal.preprod.nemnet.net.au>
 - Production: <https://portal.prod.nemnet.net.au>

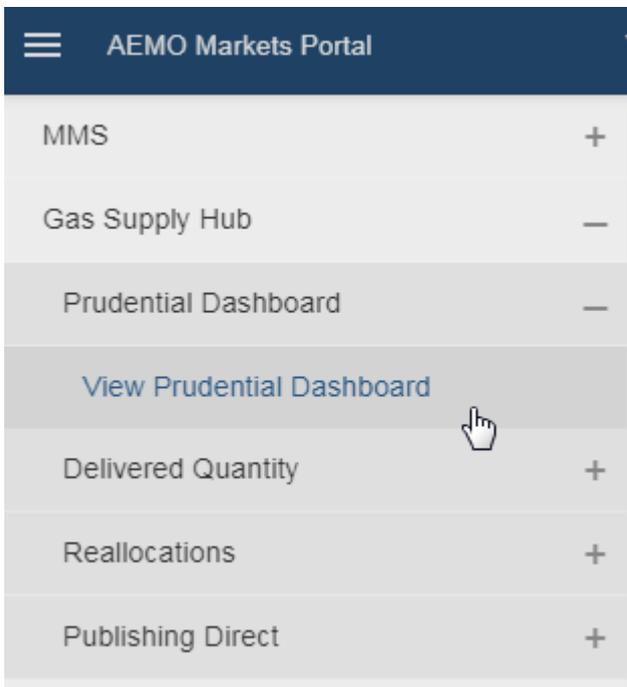
Note: the energy market systems web portal provides you with a clear indication of the environment you are working in by providing a different border colour around the home page. The production environment has a dark blue border and the pre-production environment has a green border.

2. Click **Energy Market Systems** and sign in using the user ID and password provided by your company's PA.



3. On the left navigation pane, click **Gas Supply Hub**, then **Prudential Dashboard** and then **View Prudential Dashboard**.

Figure 1: energy market systems web portal home page



3 GSH Prudential Dashboard Interface

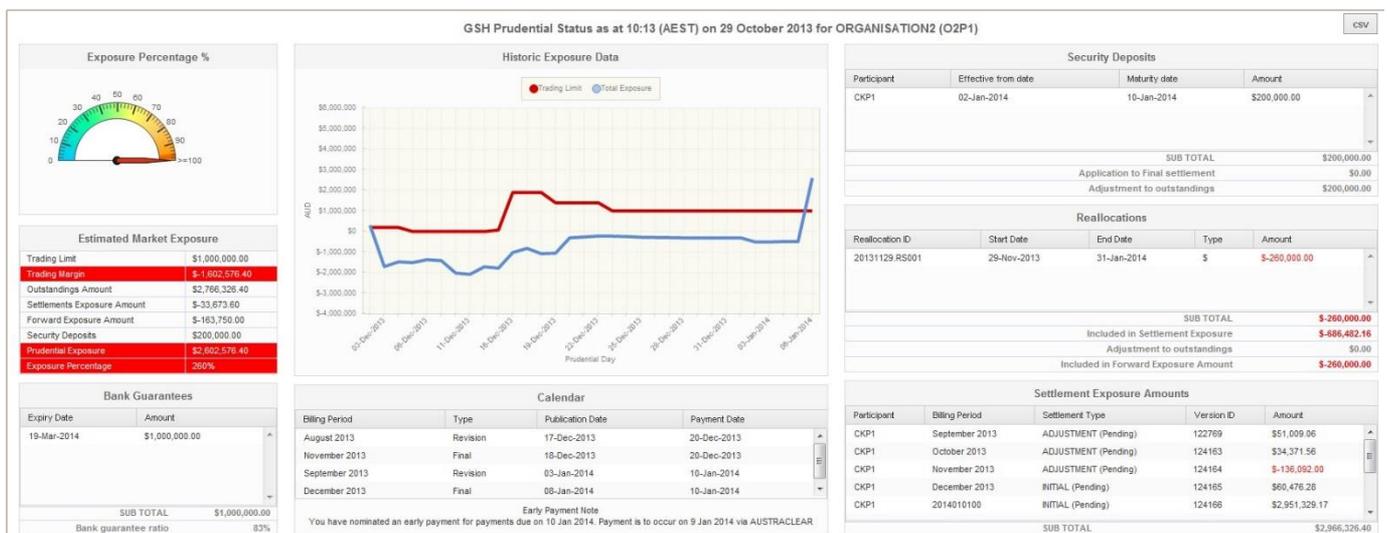
This chapter describes each GSH Prudential Dashboard panel and its data in detail.

In this chapter:

- 3.1 Dashboard title..... 7
- 3.2 Download prudential run data..... 7
- 3.3 Trading status..... 8
- 3.4 Exposure percentage..... 8
- 3.5 Estimated market exposure..... 9
- 3.6 Bank guarantees..... 10
- 3.7 Historic exposure data..... 11
- 3.8 Calendar..... 12
- 3.9 Security deposits..... 13
- 3.10 Reallocations..... 14
- 3.11 Settlement exposure amounts..... 15

The dashboard displays the information for the Participant ID or IDs identified in the dashboard title only.

Figure 2: GSH Prudential Dashboard

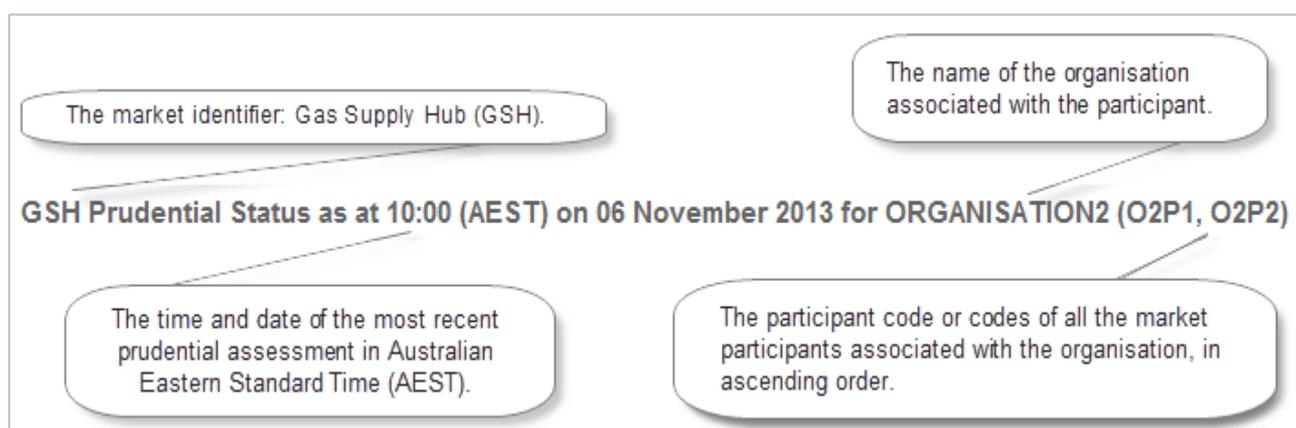


3.1 Dashboard title

The dashboard title displays the following information:

- The market identifier - Gas Supply Hub (GSH).
- The time and date of the most recent prudential assessment in Australian Eastern Standard Time (AEST).
- The name of the organisation associated with the participant.
- The participant code or codes of all the market participants that are associated with the organisation, in ascending order. All information displayed on the prudential dashboard relates to the participant codes specified in the dashboard title.

Figure 3: dashboard title



3.2 Download prudential run data

To download the prudential data displayed on the screen:

- Click the **CSV** button on the right-hand side of the dashboard title (Figure 2 on previous page) and do one of the following:
 - Click **Open** to open the file in CSV format.
 - Click **Save** to save the .CSV file to your local computer.
 - Click **Cancel** to stop the download.

3.3 Trading status

The trading status shown in Figure 4 below is only visible if a market participant's trading ability is halted due to a prudential breach. If applicable, it displays above the Exposure Percentage panel, see "Exposure percentage" below.

If a market participant is on a trading halt, the participant must contact prudentials@aemo.com.au to resolve the prudential breach and regain the ability to trade.

Figure 4: trading status



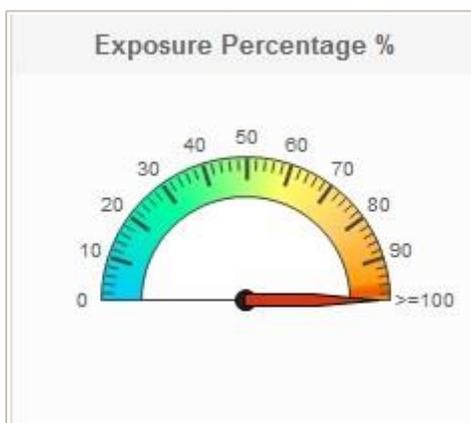
3.4 Exposure percentage

The exposure percentage panel displays the organisation's prudential exposure compared with the organisation's trading limit in a gauge graph. The speedometer needle indicates where your exposure percentage lies:

- A satisfactory limit is green.

If the organisation's exposure percentage is less than 0, the indicator points to 0.

Figure 5: exposure percentage



3.5 Estimated market exposure

The following sections describe each of the parameters displayed in the estimated market exposure panel.

Figure 6: estimated market exposure

Estimated Market Exposure	
Trading Limit	\$1,000,000.00
Trading Margin	\$-1,602,576.40
Outstandings Amount	\$2,766,326.40
Settlements Exposure Amount	\$-33,673.60
Forward Exposure Amount	\$-163,750.00
Security Deposits	\$200,000.00
Prudential Exposure	\$2,602,576.40
Exposure Percentage	260%

3.5.1 Trading limit

Displays the subtotal of the market participant's active bank guarantees for the current prudential assessment. The trading limit is the maximum value that prudential exposure can accumulate to and is equal to the sum of valid bank guarantee amounts.

3.5.2 Trading margin

Displays the market participant's trading margin; this is the difference between the trading limit and the prudential exposure amounts. A negative trading margin indicates the prudential exposure amount has exceeded the trading limit.

3.5.3 Outstandings amount

Displays the market participant's current value of net trading liability to AEMO. Participants can decrease the outstandings amount daily using security deposits or credit reallocations. The organisation's outstandings amount equals the settlement exposure amount plus reallocation amounts for gas days less than the prudential run date where the reallocation amounts were not included in settlement run, minus security deposits, minus early payments.

3.5.4 Settlements exposure amount

Displays the market participant's sum of all unpaid settlement amounts. This value is equal to the subtotal amount of the settlement exposure amounts panel, see "Settlement exposure amounts" on page 15.

3.5.5 Forward exposure amount

Displays the market participant's forward exposure amount, this is calculated based on submitted orders, executed trades, and reallocations where the delivery date is today and in the future. For more detail on the forward exposure amount calculation, see [Settlements and Prudential methodology](#).

3.5.6 Security deposits

Displays the market participant's total security deposit amounts included in a prudential run as an adjustment to the outstandings amount. This value is equal to the adjustment to outstandings amount of the security deposits panel, see "Security deposits" on page 1.

3.5.7 Prudential exposure

Displays the market participant's current liability. The prudential exposure amount is the sum of the outstandings amount and the forward exposure amount. To avoid a prudential breach, the prudential exposure amount must not exceed the trading limit.

3.5.8 Exposure percentage

Displays the market participant's prudential exposure amount, divided by the trading limit, multiplied by 100%. To avoid prudential breach, the exposure percentage must be under 100%.

3.6 Bank guarantees

The bank guarantees panel displays a list of bank guarantees held by AEMO and used to calculate the trading limit for the current prudential run. The panel displays the following information ordered by the most recent expiry date:

- **Expiry Date:** The date the bank guarantee expires. A record highlighted in red indicates it is not used to calculate your trading limit because it expires within ten

business days.

- **Amount:** The amount of the bank guarantees.
- **Subtotal:** The total amount of all bank guarantees held by AEMO less any amounts drawn down and any bank guarantees expiring within ten business days (highlighted in red).
- **Bank guarantee ratio:** The ratio in percentage of the bank guarantee amount divided by (the bank guarantee amount plus the security deposit amount) multiplied by 100%.

If there are multiple bank guarantees and you cannot see the subtotal, use your mouse to scroll down without clicking the down-arrow.

Figure 7: bank guarantees

Bank Guarantees	
Expiry Date	Amount
19-Mar-2014	\$1,000,000.00
SUB TOTAL	
	\$1,000,000.00
Bank guarantee ratio	
	83%

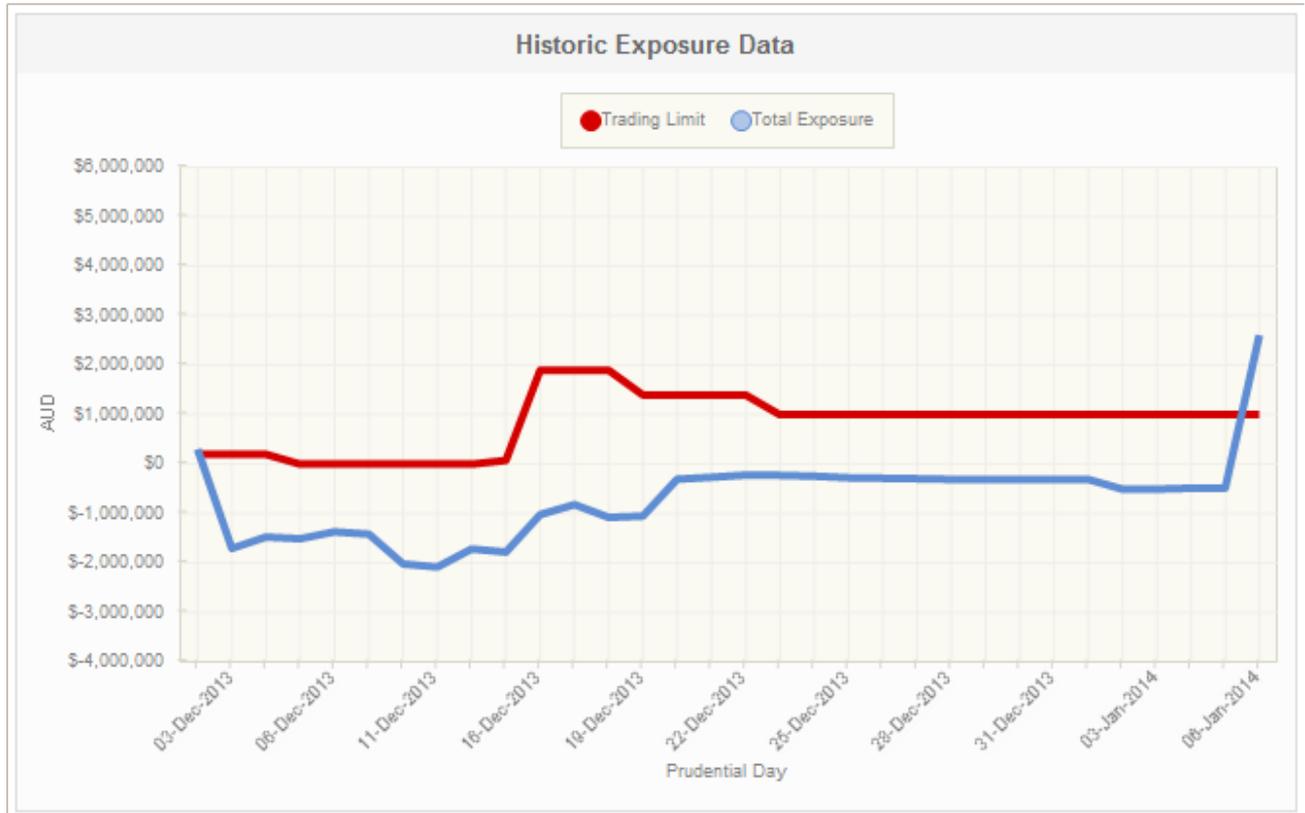
3.7 Historic exposure data

The historic exposure data graph displays the latest prudential exposure amount and the trading limit for the previous and current billing periods. The graph displays the following information:

- **AUD axis:** Displays the amount in Australian dollars.
- **Prudential Day axis:** Starts on the first day of the previous billing period and ends on the most recent prudential day of the current billing period for which there is a prudential run.
- **Trading Limit:** The organisation’s trading limit displays in red.
- **Total Exposure:** The organisation’s prudential exposure displays in blue.

Holding your mouse over a specific area of the total exposure line displays the **Prudential Day**, **Trading Limit**, and **Total Exposure** for that date.

Figure 8: historic exposure data



3.8 Calendar

The calendar panel includes the following information in order of the payment date:

- **Billing Period:** The billing month.
- **Type:** The billing period run type, for example Final or Revision.
- **Publication Date:** The date the settlement statement for the billing period is published.
- **Payment Date:** The date payment of the settlement statement for the billing period is due.
- **Early payment note:** The early payment note only displays if market participants have nominated an early payment and the nomination is authorised by AEMO. This note alerts market participants to put an early payment trade using Austraclear.
- **Early Payment table:** The early payment table displays below the calendar table if the market participant has made an early payment on the current payment date. It includes the Billing Period, Payment Date, and Amount.

Figure 9: calendar

Calendar			
Billing Period	Type	Publication Date	Payment Date
August 2013	Revision	17-Dec-2013	20-Dec-2013
November 2013	Final	18-Dec-2013	20-Dec-2013
September 2013	Revision	03-Jan-2014	10-Jan-2014
December 2013	Final	08-Jan-2014	10-Jan-2014

Early Payment Note

You have nominated an early payment for payments due on 10 Jan 2014. Payment is to occur on 9 Jan 2014 via AUSTRACLEAR

Early payments are always adjustments to the outstandings components amount. They can only occur after posting of the final settlement statement.

3.9 Security deposits

The security deposits panel displays a breakdown of the market participant's security deposits lodged with AEMO but not yet returned. Security deposits are used to reduce the market participant's outstandings. The reduction can happen by application to a final settlement amount or adjustment to an outstandings amount. The security deposits panel includes the following information ordered by participant code in ascending order and then by maturity date in ascending order:

- **Participant:** The participant code of the participant providing the security deposit.
- **Effective from date:** The date from when the security deposit is effective.
- **Maturity date:** The date the security deposit matures (the payment due date of the selected billing period).
- **Amount:** The amount of the security deposit.
- **Subtotal:** The total amount of all security deposits.
- **Application to Final settlement:** The application to final settlement amount is the returned security deposits applied to the market participant's final settlement invoice.
- **Adjustment to outstandings:** The adjustment to outstandings amount is the security deposits not yet returned to the market participant and is a net credit carried forward into the calculation of outstandings.

Figure 10: security deposits

Security Deposits			
Participant	Effective from date	Maturity date	Amount
CKP1	02-Jan-2014	10-Jan-2014	\$200,000.00
SUB TOTAL			\$200,000.00
Application to Final settlement			\$0.00
Adjustment to outstandings			\$200,000.00

Security deposits are only returned through final settlement statements.

3.10 Reallocations

The reallocations panel displays a breakdown of authorised reallocations applying to any date included within the current prudential run. Participants lodge reallocations at any time using AEMO's GSH Reallocations web application in the energy market systems web portal.

AEMO includes the reallocation in the settlement exposure amount if the reallocation is used in either, or both, an initial or a final settlement calculation. The ex post reallocation amounts not yet included in a settlement calculation, are provided as adjustments to outstandings and included in the initial settlement run the next calendar day.

The reallocations panel includes the following information ordered by start date and then by end date in ascending order:

- **Reallocation ID:** The identifier for the reallocation.
- **Start Date:** The date the reallocation agreement comes into effect.
- **End Date:** The date the reallocation agreement ends.
- **Type:** The agreement type of the reallocation, such as Fixed Dollar Amount (\$) or Fixed Quantity Amount (GJ).
- **Amount:** The total prudential amount used in this prudential run. This includes the total reallocation amounts included in the settlement exposure amount, the reallocation amount applied as an adjustment to outstandings, or the reallocation amount included in the forward exposure amount of the prudential run.
- **SUBTOTAL:** The total reallocation amount included in the current prudential run (the sum of all values displayed in the Amount column).
- **Included in Settlement Exposure:** The total reallocation amounts included in the settlement run.

- **Adjustment to outstandings:** The total reallocation dollar amounts used as adjustment to outstandings in this prudential run. This include all reallocations amounts not included in settlement runs and are associated with gas days covered by the prudential run where the reallocation gas day is less than the prudential run date.
- **Included in Forward Exposure Amount:** The total reallocation amounts included in the forward exposure amount in this prudential run. This includes all reallocations amounts associated with gas days in the prudential forward exposure period for reallocation.

Figure 11: reallocations

Reallocations				
Reallocation ID	Start Date	End Date	Type	Amount
20131129.RS001	29-Nov-2013	31-Jan-2014	\$	\$-260,000.00
SUB TOTAL				\$-260,000.00
Included in Settlement Exposure				\$-686,482.16
Adjustment to outstandings				\$0.00
Included in Forward Exposure Amount				\$-260,000.00

Reallocation requests lodged after the final settlement calculation completes are rejected and not displayed on the dashboard. For details about reallocation submission cut-off dates and times, see the [Gas Supply Hub Reallocation Procedure](#).

3.11 Settlement exposure amounts

The settlement exposure amounts panel displays all the settlements included in the current prudential run. It displays a breakdown of the market participant’s trading liability for those billing periods that have occurred but are not yet settled. Each billing period amount is derived from the latest available version of the settlement calculation. The settlement exposure amounts panel includes the following details ordered by participant and then by version ID:

- **Participant:** The participant code of the participant to which the outstanding settlement applies.
- **Billing Period:** The billing period of the settlement run.
- **Settlement Type:** The type of the settlement run such as Initial, Final, Revision, or Adjustment. If a settlement run type is not yet posted, pending is included in the description for example, FINAL (Pending). For more details about settlement types, see "Settlement types explained" on the facing page.
- **Version ID:** The run identifier of the settlement run.

- **Amount:** The settlement amount (sum of all charges, payments and GST components) calculated in the settlement run.
- **SUBTOTAL:** The aggregated amount of all the settlement amounts listed in the table.

Figure 12: settlement exposure amounts

Settlement Exposure Amounts				
Participant	Billing Period	Settlement Type	Version ID	Amount
CKP1	September 2013	ADJUSTMENT (Pending)	122769	\$51,009.06
CKP1	October 2013	ADJUSTMENT (Pending)	124163	\$34,371.56
CKP1	November 2013	ADJUSTMENT (Pending)	124164	-\$136,092.00
CKP1	December 2013	INITIAL (Pending)	124165	\$60,476.28
CKP1	2014010100	INITIAL (Pending)	124166	\$2,951,329.17
SUB TOTAL				\$2,966,326.40

3.11.1 Settlement types explained

Final

FINAL displays when a settlement calculation is complete and posted to support a final statement. Assuming the settlement for the liability amount shown on the final statement will be transacted prior to 12 noon and therefore not considered as part of the official outstandings calculation for the day, the final version remains in the settlement exposure amounts list until the payment date and then the entry is removed.

If payment of the settlement amount is not completed by 12 noon on the payment date, a default event has occurred and the GSH default and suspension procedures are triggered, see [Gas Supply Hub – Exchange Agreement](#).

Revision

REVISION displays when a settlement calculation is complete and posted to support a revision statement. The revision version remains in the settlement exposure amounts list until a final settlement calculation, that includes the revision version amounts, is complete.

Pending

The **Pending** settlement type displays for final and revision version runs when these settlement runs are not yet published to market participants. Pending versions are used for prudential runs to capture the latest prudential position for market participants.

Initial

INITIAL displays for the billing period when there is no final run available.

Adjustment

ADJUSTMENT displays for the billing period to reflect updates to a final statement that is settled where no posted or pending revision run is available.

4 Needing Help

4.1 AEMO's Information and Support Hub

4.1.1 Contacting AEMO's Information and Support Hub

Assistance is requested through AEMO's Information and Support Hub using one of the following methods:

- Phone: 1300 AEMO 00 (1300 236 600) and follow the prompts.
- For non-urgent issues, normal coverage is 8:00 AM to 6:00 PM on weekdays, Australian Eastern Standard Time (AEST).
- Email: supporthub@aemo.com.au
- The Participant Services Portal, https://aemo.service-now.com/participantportal?id=pp_index allows you to log your own requests for assistance. For access credentials, see your organisation's IT security contact or participant administrator.

Please note that AEMO recommends participants call AEMO's Information and Support Hub for all urgent issues, whether or not you have logged a call in the Participant Services Portal.

4.1.2 Information to provide AEMO

Please provide the following information when requesting assistance from AEMO:

- Your name
- Organisation name
- Participant ID
- System or application name
- Environment: production or pre-production
- Problem description
- Screenshots

For AEMO software-related issues please also provide:

- Version of software
- Properties or log files

- Replication Manager support dump and instance name (if Data Interchange problem)

4.2 Feedback

To suggest improvements to this guide, please contact the [AEMO Information and Support Hub](#).

5 References

The resources listed in this section contain related information that may assist you.

- AEMO Information and Support Hub, phone: 1300 AEMO 00 (1300 236 600), and follow the prompts, email: supporthub@aemo.com.au.

5.1 Rules, law, and government bodies

- "Australian Energy Market Commission" (AEMC), electricity and gas rules
- <http://www.aemc.gov.au/index.html>.
- "Australian Energy Regulator (AER)", www.aer.gov.au.
- "Australia's national public holidays", <https://www.australia.gov.au/about-australia/special-dates-and-events/public-holidays>.

5.2 AEMO's website

- "Exchange Agreement", <http://aemo.com.au/Gas/Gas-Supply-Hubs/Market-operations> (Home > Gas > Gas Supply Hub > Market Operations).
- "Information Systems", IT systems information, related documents, and access forms: <https://www.aemo.com.au/Gas/IT-systems-and-change> (Home > Gas > IT Systems).
- "Gas Supply Hub", <http://www.aemo.com.au/Gas/Market-Operations/Gas-Supply-Hub> (Home > Gas > Market Operations > Gas Supply Hub).
- *Gas Supply Hub Reallocation Procedure*, <https://www.aemo.com.au/Gas/Gas-Supply-Hubs/Settlements-and-payments/Clearing> (Home > Gas > Gas Supply Hub > Settlements & Payments > Clearing).
- *Guide to User Rights Management*, <http://aemo.com.au/Electricity/IT-Systems/NEM> (Home > Electricity > IT Systems > NEM > Participant administration and user rights).
- "Settlements and Prudential Methodology", <http://aemo.com.au/Gas/Gas-Supply-Hubs/Settlements-and-payments/Settlements> (Home > Gas > Gas Supply Hub > Settlements and Payments > Settlements).

6 Index

B

Bank guarantees 10

C

Calendar 12

D

Dashboard title 7

Download prudential data 7

E

Estimated market exposure 9

Exposure percentage 8, 10

F

Feedback 19

Forward exposure amount 10

G

GSH Exchange Agreement 2

H

Historic exposure data 11

I

Information and Support Hub 18

M

MarketNet 5

O

Outstandings amount 9

P

Prudential exposure 10

Prudential framework 2

R

Reallocations 14

S

Security deposits 10, 13

Settlement exposure amounts 15

Settlement types explained 16

Settlements exposure amount 10

System requirements 4

T

Trading limit 9

Trading margin 9

Trading status 8

U

User rights access 4