

MSATS INTRODUCTION GUIDE

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Documents made obsolete: The release of this document changes only the version of the MSATS INTRODUCTION GUIDE. No documents are made obsolete by releasing this document version 9.04.

Contents

1	Introduction	1
1.1	Purpose.....	1
1.2	Audience	1
1.3	Scope.....	1
1.3.1	What's in this guide	1
1.3.2	Related resources	1
1.4	Organisation.....	2
1.5	Conventions	2
2	Context.....	4
2.1	What the MSATS Web Portal is for	4
2.2	How do you use the MSATS Web Portal.....	4
2.3	Who can use the MSATS Web Portal.....	4
2.4	Access rights.....	5
2.5	System requirements	5
3	MSATS Menu Functions	6
4	Navigation	7
4.1	Main menu	7
4.2	Main screen.....	9
4.3	Field types.....	10
5	Set Participant.....	12
5.1	Using the Set Participant function.....	12
5.2	Resetting the Participant ID.....	13
6	User Guides	14
6.1	Viewing the user guides	14
7	User Suggestions.....	15
7.1	Making a suggestion	15
8	Understanding MSATS Training.....	17
8.1	Viewing training information	17
8.2	Enquiring or enrolling in training	17
9	MSATS Reference information.....	19
9.1	aseXML.....	19
9.2	B2B Procedures	19
9.3	CATS and WIGS Procedures	19
9.4	MDM Procedures	20

10	Glossary	21
10.1	Abbreviations	25
10.2	Special Terms	26
11	References.....	27
11.1	AEMO's website	27
11.2	EITS publications	27
11.3	Information centre	27

1 Introduction

1.1 Purpose

This document is an overview of the MSATS Web Portal version 3.0 – software build 46.77. The document is part of the Market Settlement and Transfer Solution (MSATS) User Guide Group; see “Related resources” below for information on other documents in the MSATS User Guide Group.

1.2 Audience

The audience for this guide is:

- Ombudsman organisations
- MSATS registered participants
- MSATS agents as authorised by the registered participant
- AEMO

1.3 Scope

1.3.1 What’s in this guide

For information about how to:

- use the MSATS Web Portal menus
- use the AEMO only MSATS Web Portal functions
- use the MSATS Web Portal B2B functions
- provide other users with access to your MSATS Web Portal participant data

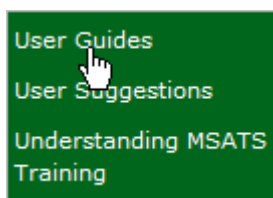
Refer to “Related resources” below for information about other documents in the MSATS user guide group.

- Log in or out of the MSATS Web Portal, refer to the “References” section on page 27.

1.3.2 Related resources

The MSATS User Guide Group of documents form a detailed guide to the use of the MSATS Web Portal. Each document is targeted towards a specific audience and explains how to navigate and use the menus for each MSATS Web Portal function.

The documents are accessed by clicking the [User Guides](#) link on the MSATS main menu.



The following table provides a description of each document in the MSATS User Guide Group and its intended audience.

Document name	Description	Registered participants	B2B users	Participant admins	Ombudsman organisations	AEMO
MSATS Introduction Guide	An overview of the MSATS Web Portal. Contains a list of Reference Information referred to in this document.	✓	✓	✓	✓	✓
MSATS User Interface Guide	Explains how to use the MSATS participant Web Portal functions	✓	✓	✓	✓	✓
MSATS AEMO User Interface Guide	Explains how to use the MSATS AEMO only Web Portal functions					✓
MSATS B2B User Interface Guide	Explains how to use the B2B functions		✓			✓
MSATS Participant Rights Administration User Interface Guide	Explains how to create and maintain users to provide them access to your data.			✓	✓	✓
MSATS Ombudsman Enquiry User Interface Guide	Explains how to use the Ombudsman Enquiry system.				✓	✓

1.4 Organisation

This document is organised in the following way:

- An overview of the functionality used in the MSATS Web Portal.
- How to navigate the MSATS Web Portal.
- Where to find additional information relating to the MSATS Web Portal. Refer to the Reference information section for information relating to MSATS processes and procedures.
- Glossary – table of abbreviations and terms used in the MSATS Web Portal.

1.5 Conventions



Important Note: important information.



Note: notes, hints and tips.

Menu item: text formatted in this style refers to a menu item in the MSATS Web Portal.

Button: text formatted in this style refers to a button to click on a screen.

Link: text formatted in this style refers to a link to click on a screen.

Screen: text formatted in this style refers to a field or description on a screen.

Reference: text formatted in this style refers to another document or section in this document.

2 Context

2.1 What the MSATS Web Portal is for

The functionality available within the MSATS Web Portal, allows for the transfer of consumers and settlements within the wholesale electricity market. This includes:

- Participant Life Cycle
- Consumer Administration and Transfer Solution (CATS)
- Wholesale, Interconnector, Generator and Sample (WIGS) NMIs
- NMI Standing Data Management
- Metering Data Management (MDM)
- Profile Preparation Service (PPS)
- Profile Application (Basic Meter Profiling (BMP))
- Creation and management of B2B transactions
- B2B technical testing (Responder)

Apart from user and administrative maintenance, the MSATS Web Portal is regarded as having four areas of functionality.

- **Consumer Administration and Transfer Solution (CATS)**, which includes the Participant Life Cycle, CATS and NMI Standing Data Management.
- **Wholesale, Interconnector, Generator and Sample (WIGS)**. The WIGS procedures contain the principles that govern the transfer of consumer settlements, the registration of metering installation and management of standing data for NMIs that are classified as wholesale, interconnector, generator or sample.
- **Metering Data Management System (MDM)**, which includes the Profile Preparation Service, Basic Meter Profiling and Data Aggregation.
- **Business to Business System (B2B)**, which includes the B2B Responder.

2.2 How do you use the MSATS Web Portal

MSATS is accessed via your Internet browser. Your organisation's help desk can provide you the URL, along with your user ID and password. Please contact your organisation's help desk and ask for the MSATS participant administrator, to apply for a login, or for help with any login problems you may have.

2.3 Who can use the MSATS Web Portal

- Administrators may authorise other users access to their data in the MSATS Web Portal, see the Participant Rights Administration User Interface Guide.

Where a user has user rights assigned by more than one participant, the user interactively chooses the participant they represent, using the **Set Participant** option on the MSATS main menu. See "Set Participant" on page 12.

- The MSATS Registered participant, their Agents, and AEMO have full access to all the information in the system.
- Administration users are set up by AEMO as part of the registration process. For further information regarding registration and access to the MSATS Web Portal, please refer to the documents on AEMO's website: www.aemo.com.au, in particular the NEM registration information.

2.4 Access rights

The right a user is assigned establishes what sort of access a user has to the MSATS system. This right determines which MSATS functionality can be accessed via the Web Portal, and what transactions can be executed via the batch interface.

Users of MSATS fall into two categories of rights; ordinary user and administrators. Many users may share the same right, or a right may be created for an individual. To change your access rights, contact your organisation's administrator.

A summary of these rights are explained below:

- **Administrators** – are users who are assigned an administrator right for their organisation. They maintain users from their organisation's point of view.

Administrators can create new users and assign rights within their organisation.

Administrators can only assign equal or lesser rights than they have when creating a new user.

- **Ordinary user** – normal users who use the MSATS Web Portal to submit and complete transactions or to look up and download information.



Note: for further information, participant administrators can refer to the "MSATS Participant Rights Administration User Interface Guide".


2.5 System requirements

The MSATS Web Portal is part of AEMO's market software solution. It is accessed by using a web browser and requires:

- Microsoft Internet Explorer version 7 or later, although the recommended version is Microsoft Internet Explorer 8.
- A monitor capable of 1024 x 768 screen resolution.
- Access to MarketNet.
- The URL of the website where the application is located on AEMO's network.
- A user ID and password provided by your system administrator. User accounts are created in the MSATS system, see the "MSATS Participant Administration User Interface Guide".

3 MSATS Menu Functions

This table describes the functions performed in each MSATS menu.

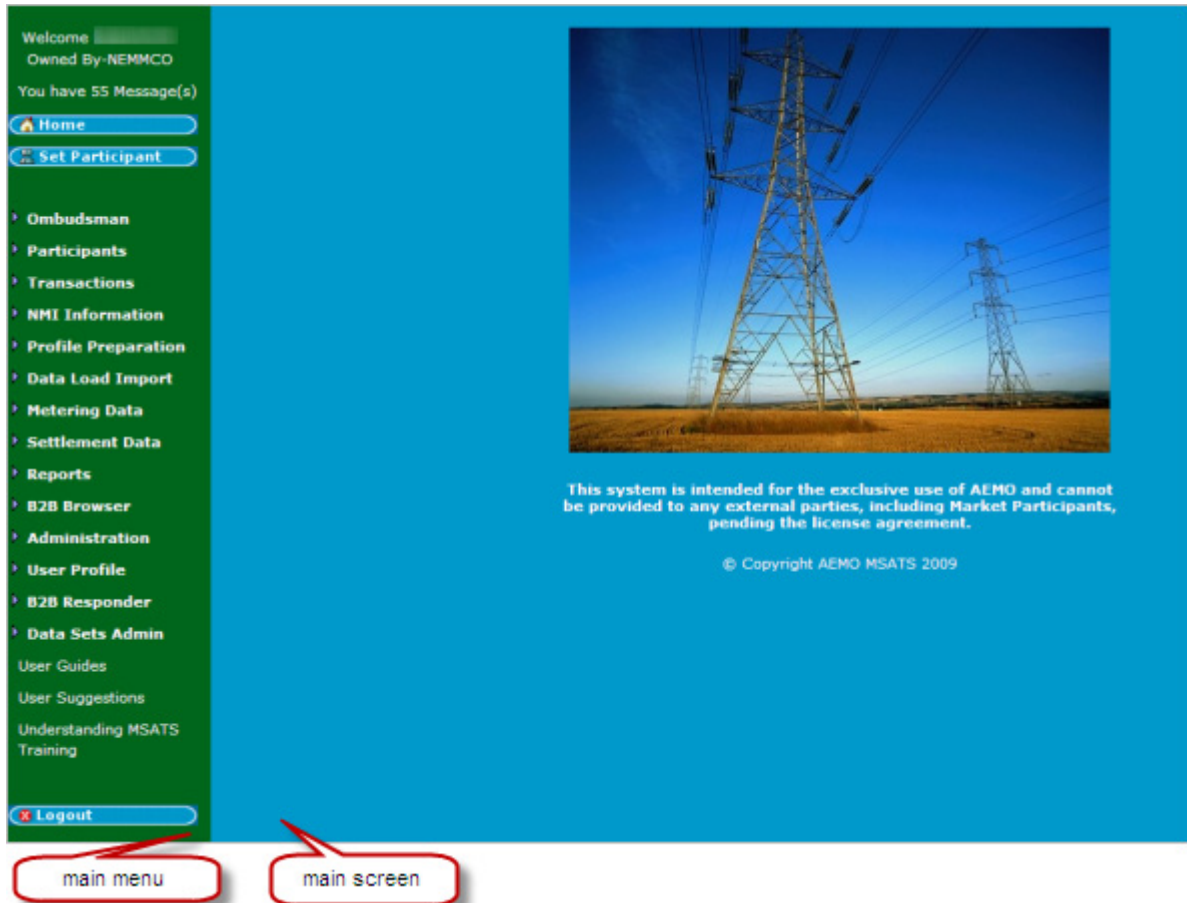
 **Important Note:** you will only see the parts of the system that you have been granted access to, see “Access rights” on page 5.

Menu item	Description
Ombudsman	The Ombudsman Enquiry system provides ombudsman organisations with secure self-serve access to NMI standing data. Using the Ombudsman menu, users can view and download NMI information and reports on ombudsman enquiries.
Participants	Used to maintain the organisation's information.
Transactions	In this section you can create, edit, withdraw, object and view change requests created by or associated to you, request data and search for notifications.
NMI Information	Search for and view NMI information.
Profile Preparation	This section performs Metering Data Management (MDM) functions such as defining profile methods and areas, defining data sources and creating profiles.
Data Load Import	Carries messages between MSATS and participant systems and allows access to participant archive folders.
Metering Data	Access to the metering data search.
Settlement Data	Used by authorised users to perform settlement runs.
Reports	Access to the various MSATS reports and monitoring queues.
Administration	Used by authorised users to maintain users, codes, rules, archival setup and the system calendar.
User Profile	Used to change and view user profiles and update passwords.
B2B Browser	Supports the creation and management of a defined set of business-to-business transactions and acknowledgements. Used by participants to manage their MSATS B2B Handler inbox and outbox.
B2B Responder	Used by participants to specify what transactions they would like to receive as part of the initiative to test the operational interaction between participants' systems and the MSATS B2B Hub.

4 Navigation

When you login to MSATS, the **Home Page** displays with the general layout of the screen split into two sections.

- **Main menu** – left side of the screen.
- **Main screen** – right side of the screen.



Important Note: AEMO supports several instances of MSATS; in addition to the MSATS production environment, participants have access to the pre-production environment, supporting training and testing. The colour of the menu bar on the left side of the screen provides a visual clue as to the environment in which you are working.

- In the production environment, the main menu is dark blue.
- In the pre-production environment, the main menu is dark green.

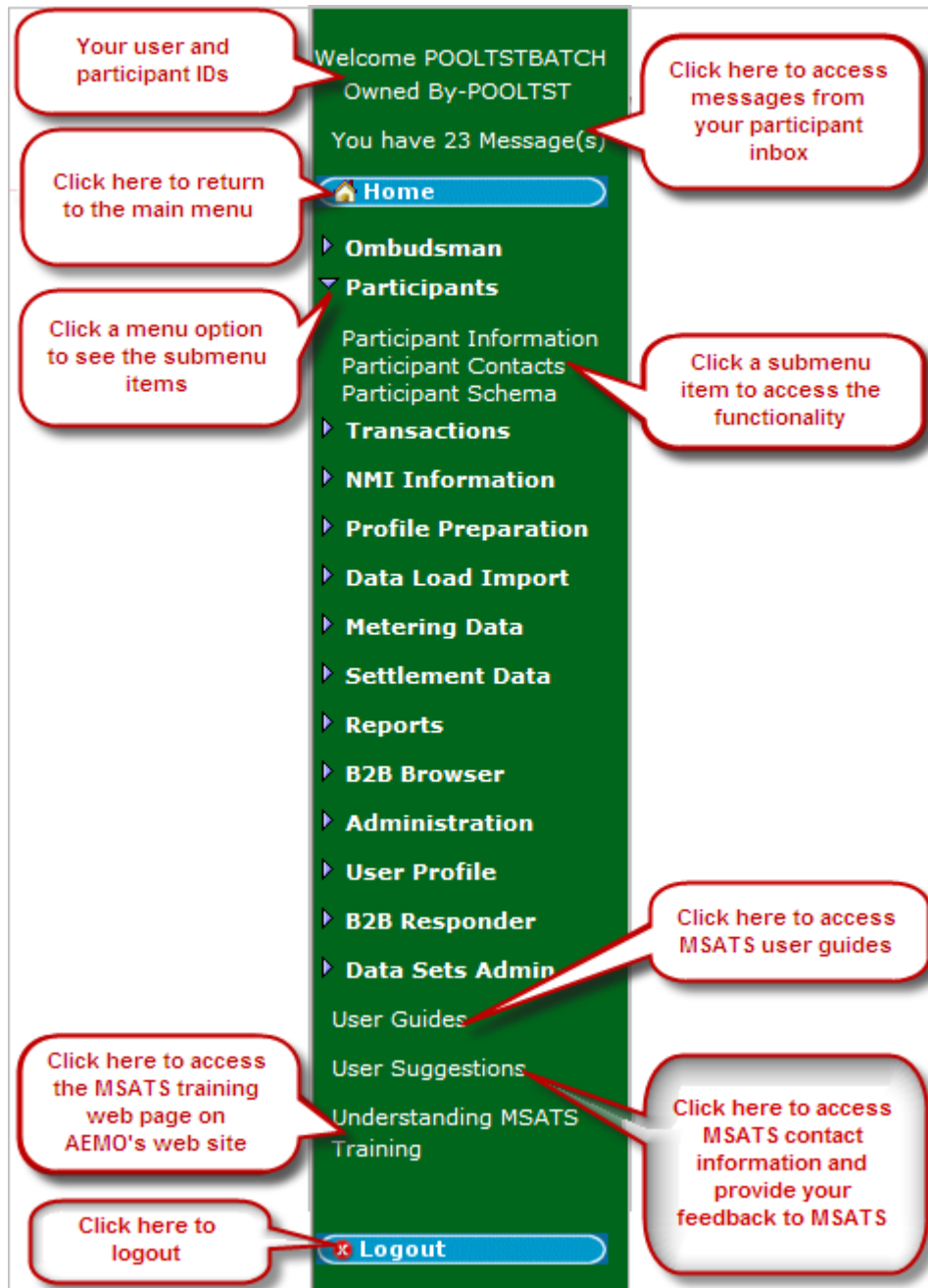
4.1 Main menu

The main menu is used as a navigation tool to access MSATS functionality and remains on the left-hand side of the screen at all times. The options you see in your main menu depend on the access rights you are assigned. For example, you may not have **Set Participant** if you do not have access to more than one participant, see “Access rights” on page 5.

The main menu contains the following options:

- **Welcome <Participant ID> <Company Name>** -- displays the participant ID and participant name you are logged in with.

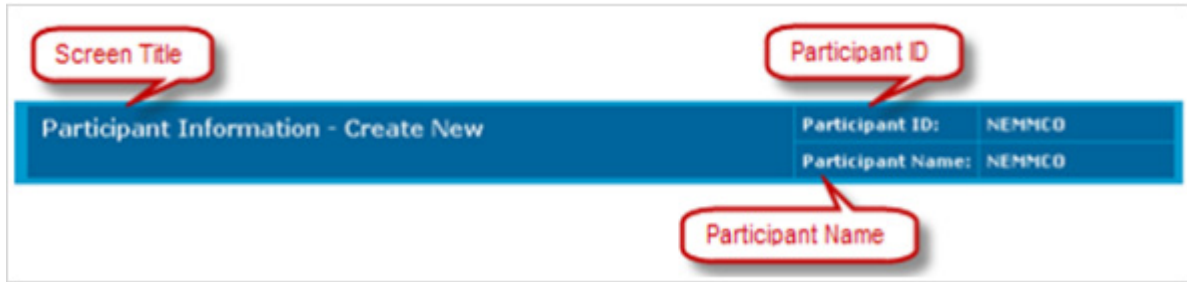
- **You have <number> Message(s)** – displays the number of messages received from MSATS. These could be notifications, report output, requests for data, etc. Click the hyperlink to access the messages.
- **Home** – click to return to the main menu from any area within MSATS.
- **Set Participant** – provides participants access to more than one participant ID in a group. It is also used by AEMO users to set a participant organisation they wish to emulate. This option is only visible to users who have access rights to more than one participant, see “Set Participant” on page 12.
- **Menu option** – the main heading of a group of functions within MSATS. Click to see the **Sub-Menu** items.
- **Sub-Menu item** – options related to the **Menu item**. The options display when the **Menu item** is clicked. Click a submenu item to access the functionality.
- **User Guides** – click to access user documentation on the AEMO website. To learn more, see “User Guides” on page 14.
- **User Suggestions** – displays the **User Suggestions – Entry Screen** that has contact information for technical difficulties and the opportunity to provide suggestions for enhancements to the MSATS user interface, CATS processes and B2B processes. To learn more, see “User Suggestions” on page 15.
- **Understanding MSATS Training** – clicking this link opens the Understanding MSATS web page on the AEMO website. To learn more, see “Understanding MSATS Training” on page 17.
- **Logout** – click to logout of MSATS.



4.2 Main screen

The main screen displays the submenu options selected from the main menu. The main screen changes constantly, depending on the option selected. The main screen can be further divided into the following areas:

- **Screen Title** – displays the name of the currently selected submenu option.
- **Participant ID** – displays the participant ID you logged in with.
- **Participant Name** – displays the participant name your participant ID is associated with.



Important Note: while using the **Set Participant** option, the **Welcome Participant ID** displayed on the main menu remains the same as the one you logged in with. For example, you logged in with the participant ID, AEMOTrainer and using **Set Participant** you changed the participant to AEMOparticipant, the **Welcome Participant ID** on the main menu does not change but the **Participant ID** and **Participant Name** on the main screen changes.

Welcome TRAINER

Welcome displayed on main menu

Participant ID:	ENERGEX
Participant Name:	Energex - Retailer

Participant ID and Participant Name displayed on the main screen

4.3 Field types

The following table contains an explanation of the field types used in the MSATS Web Portal.

Field name	Description	Field
Free text	Fields allowing information with no specific data type to be entered (although some fields may have character limits applied e.g. 50 characters).	<input type="text"/>
Mandatory	Data for Mandatory fields must be entered. If a field is mandatory it displays with an asterisk (*) after the field name.	Title (*): <input type="text"/>
Drop-down list	Click the arrow to display the list of options. Click the option to select it.	A - Active <input type="button" value="v"/>
Option button	Click the Option Buttons to select an option. Only one option can be selected at a time. A green radio button is the selected one.	<input checked="" type="radio"/> All Participants <input type="radio"/> Submitted Date
Check box	Check boxes are used as Yes or No options. A Check Box with a tick is selected.	<input checked="" type="checkbox"/> <input type="checkbox"/>
Action Buttons	Action buttons perform appropriate functions according to the screen functionality.	
	Resets all fields to blank.	<input type="button" value="Clear"/>
	Saves the information currently displayed on the screen.	<input type="button" value="Save"/>
	Searches for the specified criteria entered and displays the results.	<input type="button" value="Search"/>
	Move to the next screen in the sequence.	<input type="button" value="Next"/>

Field name	Description	Field
Hyperlink	Click the hyperlink to go to another location in MSATS or another application or website. Hyperlinks within MSATS are displayed in orange.	
MSATS calendar	Click the calendar icon next to the field to select the date from the MSATS calendar. Use the drop-down lists to select the month and year, and then click the appropriate date in the calendar. Note: you can also enter dates manually using the format, dd-mmm-yyyy, e.g. 03-sep-2010.	
	Alternatively use the arrows to navigate through the months and years.	
	Moves the date backward one year at a time.	
	Moves the date forward one year at a time.	
	Moves the date backward one month at a time.	
	Moves the date forward one month at a time.	
	Sets the date to the current day.	
Time format	The time must be entered in the following format - hh:mm:ss, e.g. 23:59:59	

Below is an example of some field types in the **Change Request – Search** screen.

The screenshot shows the 'Change Request - Search' interface with several callouts:

- Free text field:** Points to the 'Change Request ID' input field.
- Drop-down list:** Points to the 'Participant' selection field.
- Option button:** Points to the 'Proposed Date' radio button.
- Calendar icon:** Points to the 'To (*)' date input field.
- Mandatory field:** Points to the 'To (*)' date input field, which has a red asterisk.
- Action buttons:** Points to the 'Search' and 'Clear' buttons at the bottom.
- Hyperlink:** Points to the 'New' text link.

5 Set Participant

5.1 Using the Set Participant function

The MSATS Web Portal allows you to act for different participants without logging out and logging back in again with a different participant ID. This option is only visible to users who have access rights, to learn more, see “Access rights” on page 5.

This functionality occurs when, by default, all users are assigned to a business group. All users within a business group are visible to other participants with the same business group. Participant administrators assign rights to each of the users. To make a user visible to participants outside of a business group the participant administrator needs to specifically select participants who are allowed to assign rights to the user. If a user is not visible to participants the participant administrator should not select any participants who can view that user.

Users who have rights assigned by more than one participant can see the **Set Participant Option** in the main menu. You can change between **Participant IDs** by selecting the **Set Participant** option in the menu bar.

To switch between participants:

1. On the main menu, click **Set Participant**.



2. The **Set Current Participant** screen displays. Select the new participant, by clicking the **Participant ID** in the first column.

Click any of the column headings to sort the list by ascending or descending order.

Set Current Participant		Participant ID:	NEMMCO
		Participant Name:	Australian Energy Market Operator Limited
Reset to NEMMCO Participant			
Participant ID	Participant Name		
AER	ACCC		
EEUS	AGL Energy Services (Queensland) Pty Limited		
SOUTHHYD	AGL Hydro Partnership		
SOUTHHYD2	AGL Hydro Partnership		
ACTEWNGY	AGL Hydro Partnership		
WPWF	AGL Hydro Partnership		
TIPSCO	AGL SA Generation Pty Limited		
ERGON	AGL Sales (Queensland Electricity) Pty Limited		
PULSE	AGL Sales Pty Limited		
SOLARIS	AGL Sales Pty Limited		
AGLQLD1	AGL Sales Pty Limited		
AGLQLD2	AGL Sales Pty Limited		

3. The selected **Participant ID** and **Name** display in the top right-hand corner of the screen.

Set Current Participant		Participant ID:	AADA
		Participant Name:	test10
Reset to NEMMCO Participant			



Note: menu items change according to the rights assigned to the participant.

5.2 Resetting the Participant ID

You can switch back to the original participant ID that you logged in with at any time.

To reset the participant ID:

- Click **Reset to <ID> Participant**. The original participant details display in the **Participant Id** and **Participant Name** fields.

Reset to NEMMCO Participant

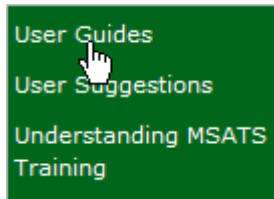
6 User Guides

6.1 Viewing the user guides

The [User Guide](#) link directs you to the AEMO website where you can obtain participant documents from the MSATS User Guide Group.

To view the user guides:

1. On the main menu, click [User Guides](#).








2. The [MSATS Participant User Interface Guides](#) page, similar to the one below, displays on the AEMO website.

MSATS Participant User Interface Guides

Information regarding use of the MSATS system is detailed in the following Participant User Interface Guides. They outline the steps involved in using the Ombudsman Enquiry System and MSATS web portal, including CATS, MDM and B2B.

The MSATS Introduction Guide provides an overview of the MSATS web portal; start with this guide if you are new to MSATS. These documents correspond to MSATS version 3, software build 46.75.2.

For further information regarding these documents, please contact the [AEMO Information Centre](#).

MSATS Introduction Guide 30 Jul 2010 filename: 0610-0016.pdf	
MSATS User Interface Guide 30 Jul 2010 filename: 0610-0017.pdf	
MSATS Participant Rights Administration User Interface Guide 30 Jul 2010 filename: 0610-0018.pdf	
MSATS B2B User Interface Guide 30 Jul 2010 filename: 0610-0019.pdf	
MSATS Ombudsman Enquiry User Interface Guide 30 Jul 2010 filename: 0610-0020.pdf	

3. Click a document name to download the document in PDF format.

7 User Suggestions

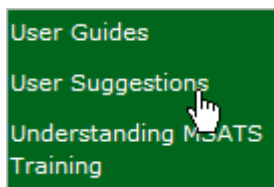
The **User Suggestions – Entry Screen** displays the following information:

- Where to find help for technical difficulties.
- Where to obtain answers to questions relating to MSATS business processes.
- Access to suggest enhancements to any of the following:
 - MSATS user interface
 - CATS processes
 - B2B processes
 - Ombudsman Enquiry system

7.1 Making a suggestion

To make a suggestion:

1. On the main menu, click **User Suggestions**.



2. The **User Suggestions – Entry Screen** displays. Read the entry screen and click **OK**.

User Suggestions - Entry Screen	
Participant ID:	NEMMCO
Participant Name:	Australian Energy Market Operator Limited
<p>If you are experiencing technical difficulties with MSATS please contact AEMO's Helpdesk on: 1300 300 295</p> <p>If you have questions regarding MSATS Business Processes please contact AEMO's Infocentre on: 1300 361 011</p> <p>The User Suggestion process should only be utilised to suggest enhancements for</p> <p>AEMO to assess with industry for the improvement of:</p> <ul style="list-style-type: none"> • MSATS User Interface • CATS Processes (Transfers, MSATS Change Requests etc) • B2B Processes (Service Orders, Meter Data etc) <p>Please press 'OK' to continue</p> <p style="text-align: center;"><input type="button" value="OK"/></p>	

3. The **User Suggestions – Send Email Screen** displays. Complete each of the compulsory fields marked with an asterisk (*).
 4. If desired, enter your **Telephone** number.
 5. Attach any **Supporting Documents** by clicking **Browse** and selecting the files from your computer.
 6. Click **Send**.
- Alternatively, click **Clear** to clear all fields and start again.

User Suggestions - Send Email Screen		Participant ID:	NEMMCO
		Participant Name:	Australian Energy Market Operator Limited
First Name (*):	<input type="text"/>	Surname (*):	<input type="text"/>
Email Address (*):	<input type="text"/>	Telephone:	<input type="text"/>
Participant/Company (*):	<input type="text"/>		
Suggestion Type (*):	<input type="text"/>	Suggestion Name (*):	<input type="text"/>
Suggestion (*):	<input type="text"/>		
Supporting Documents:	<input type="text"/>		<input type="button" value="Browse..."/>
<input type="button" value="Send"/> <input type="button" value="Clear"/>			

- The **User Suggestions – Email Sent Screen** displays your **reference number** to quote during any further correspondence.
- Click **OK** to return to the **User Suggestions – Entry Screen**.

User Suggestions - Email Sent Screen		Participant ID:	NEMMCO
		Participant Name:	Australian Energy Market Operator Limited
<p>Thank you for your MSATS Suggestion. Your suggestion has been provided with the following unique reference number: '25'</p> <p>Your suggestion will be assessed and feedback should be provided to you within 14 business days.</p> <p>Please press 'OK' to return to the User Suggestions Entry Screen</p> <input type="button" value="OK"/>			

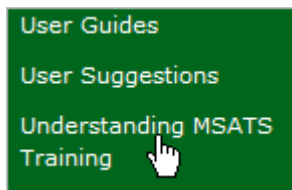
8 Understanding MSATS Training

AEMO has prepared a two day face-to-face training course that explains how and why MSATS works the way that it does. For information on the course and how to enrol, the [Understanding MSATS Training](#) link directs you to the Understanding MSATS web page on AEMO's website.

8.1 Viewing training information

To view information regarding MSATS training:

1. On the main menu, click [Understanding MSATS Training](#).



2. The Understanding MSATS web page, similar to the one on the following page, displays on the AEMO website.

8.2 Enquiring or enrolling in training

To enquire or enrol in training:

- Under the **HOW TO ENROL** heading, click [>> here](#) to enrol or waitlist delegates for training.
- Click [Understanding MSATS](#) to download a course flyer.
- Scroll down to see **Workshop Locations & Dates, Course Target Audience/ Pre-requisites** and **Course Content**.

Understanding MSATS

- Do you want to better understand how to use MSATS*?
- When using MSATS, do you find it hard to make it all fit together?

If so, then read on.

AEMO has prepared a 2-day face-to-face training course that explains how and why MSATS works the way that it does.

You should consider attending if you ever find yourself wondering the following:

- How can I use MSATS more effectively for my organisation ?
- What is the MSATS data structure and format ?
- What are the business processes that I need to be aware of ?
- Where do I fit in and what roles do other participants play in the process ?
- How do I use MSATS reports to get the information I need ?

If this sounds like you, then come along to the training. The entire course is presented by AEMO staff who are experts in MSATS (and the surrounding business processes) and who are only too happy to share their knowledge and experience with you. You can also meet and share your own experiences with other people in the industry who work in a similar environment.

Some comments from past attendees are:

- "Thanks so much for all the effort put into a great course which will enable me to more effectively carry out my role."
- "Wonderful and informative"
- "Very interesting information, well presented, interactive, enjoyed listening to it."

We are running the course 3 times in 2010; in Sydney, Brisbane and Melbourne.

** Market Settlement and Transfer Solution*

HOW TO ENROL

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The AEMO Education Team

Understanding MSATS

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PLEASE NOTE : AEMO's Education program is only offered to staff of registered participants, regulators, jurisdictions, consumer advocates and AEMO-accredited metering service providers. If you are not sure, please contact the AEMO Education team to determine

9 MSATS Reference information

The MSATS User Guide Group of documents do not detail jurisdictional and configurable rules regarding the use of the web portal and systems that interface with MSATS. Information regarding these rules, codes, technical designs and interfaces are fully detailed in documents held on AEMO's website: www.aemo.com.au.



Note: other website documents are to be used in conjunction with the MSATS User Guide Group. See the AEMO website to obtain the most current document.

The following list is an example of other documents found on the AEMO website:

9.1 aseXML

- For help with aseXML standards including guidelines, schemas, change process, sample files and whitepapers, see the AEMO website: <http://www.aemo.com.au/asexml/index.htm>
- AEMO can change the version of aseXML for output, but the timing does not always suit data recipients. To assist data recipients with making the transition, AEMO supports the delivery of both the new and immediately superseded versions of aseXML data. Each Participant receives data conforming to one of the versions at any one time. See "Transition of aseXML Version User Guide" in the secure [EITS Publications](#) area on AEMO's website (see §11.2).

9.2 B2B Procedures

- To obtain other documents that may be useful for understanding MSATS B2B procedures, see the AEMO website: http://www.aemo.com.au/electricityops/b2b_procedures.html
- For an understanding of the connection between aseXML and the B2B Procedures, refer to the Electricity B2B Participant Build Pack the secure [EITS Publications](#) area on AEMO's website (see §11.2).

9.3 CATS and WIGS Procedures

The following documents can be found at: <http://www.aemo.com.au/electricityops/msats.html>

- "CATS Procedures Principles and Obligations" are procedures that apply to registered participants in accordance with the Rules; they form part of the MSATS Procedures mentioned in the Rules clause 7.2.8.

The CATS Procedures contain the principles that govern consumer transfer, the registration of metering installations and the management of standing data. The procedures also identify the obligations placed on CATS participants. These procedures are applicable to National Metering Identifiers (NMI) that have a classification of small and large.

- "MSATS-CATS Hints and Tips" is an addendum to "CATS Procedures" intended for industry staff. This is a detailed technical guide based on the operational experience gained in MSATS. It provides hints and tips on ensuring requests are successfully loaded into MSATS, tips on reports, as well as outlining MSATS validations.
- "MSATS Procedures: Procedures for the Management of Wholesale, Interconnector, Generator and Sample NMI". This document is commonly known as the WIGS Procedures. The WIGS Procedures contain the principles that govern consumer transfer, the registration of metering installation and management of standing data for NMI that are classified as wholesale, interconnector, generator or sample.

9.4 MDM Procedures

The following documents can be found at: <http://www.aemo.com.au/electricityops/msats.html>

- The “MDM Procedures” contain details of processes performed by the Metering Data Management (MDM) component of MSATS.
- “MSATS CATS History Model” is a detailed description of how the MSATS data model is used to manage information that changes over time. It is essential reading, targeted at business analysts and IT support staff within participant businesses who are involved in managing data interfaces to and from MSATS.
- “MSATS NMI Discovery Questions and Answers” contains answers compiled in response to questions from participants asking how to get the best results from the MSATS NMI Discovery features. Its purpose is to assist participants’ staff who are actively involved in discovering NMIs through MSATS.
- “Standing Data for MSATS” provides a detailed description of the data populated in the MSATS NMI standing data tables. The document contains information on the type of data, a brief description of the data and whether the information is mandatory. It is intended as a reference guide to assist participants in building systems and processes to interact with the MSATS Web Portal and to understand the data. Please note that for a full description of the rules and processes for working with the MSATS Web Portal, see the MSATS - CATS procedures.

10 Glossary

Term	Definition
Accumulation meter	A device complying with Australian Standards which contains a measurement element(s) and a record of the accumulated quantity of the electricity flowing through the power conductor. This device may provide an electronic signal for use by a data logger. Also referred to as an accumulation meter.
Actual Date of Change	In the case of a retail transfer, this is the date when financial responsibility changes from the old to the new Financially Responsible Market Participant (FRMP) in the wholesale electricity market (the actual date of transfer). For other types of changes, it is the effective date of a change (e.g. to a DLF).
AEMC	The Australian Energy Market Commission, which is established under section 5 of the Australian Energy Market Commission Establishment Act 2004 (SA)
AEMO	Australian Energy Market Operator A.B.N. 94 072 010 327, the company which operates and administers the Australian Energy Market in accordance with the National Electricity Rules.
AER	The Australian Energy Regulator, which is established by section 44AE of the Trade Practices Act 1974.
aseXML	A Standard for Energy Transactions in XML
Average Daily Load (ADL)	The electrical energy delivered through a metering point's data streams over an extended period, normalised to a "per day" basis.
Basic Meter	A device complying with Australian Standards which contains a measurement element(s) and a record of the accumulated quantity of the electricity flowing through the power conductor. This device may provide an electronic signal for use by a data logger. Also referred to as an accumulation meter.
Basic Meter Profiler (BMP)	A party that applies a profile shape to a Basic Meter read to produce calculated interval data.
Batch Entity	The entity that must be allocated to any user id that is nominated in the Security tag for a batch transaction (e.g. to submit a change request or submit metering data).
Batch Entity Table	The Batch Entity Table is the table that allows Execute access to batch commands to be assigned to a right.
CATS	Consumer Administration and Transfer Solution.
Change Request Status	Can be one of the following: Requested, Pending, Completed, Objected, Cancelled, or Pending Validation.
Checksum	See NMI checksum.
Connection Point	The agreed point of supply established between Network Service Providers(s) and another Registered participant, Non-Registered Customer or franchise customer.
Consumer	An end use customer (consumer) of electricity.
Contact	External and internal business contacts, similar in functionality to an address book. A contact may be an internal contact within the participant organisation, or could be an external contact belonging to another market participant.
Contestable	In relation to transmission services or distribution services, a service which is permitted by the laws of the relevant participating jurisdiction to be provided by more than one service provider as a contestable service or on a competitive basis.
Create Privilege	Gives the user the access right to create records represented by an entity.
Current Party	Entities which are associated with the meter installation and retail arrangements to which a consumer desires to transfer from.

Term	Definition
Customer	A person who engages in the activity of purchasing electricity supplied through a transmission or distribution system to a connection point; and is registered by AEMO as a Customer under Chapter 2 of the National Electricity Rules.
Data stream	A stream of metering data associated with a connection point, as represented by a NMI. A NMI can have multiple data streams (e.g. from one or more meters or from one or more channels or registers that comprise a single meter). Each data stream is identified by a unique suffix, which is associated with the NMI to which it belongs.
Delete Privilege	Gives the user the access right to delete records represented by an entity.
Delivery Point Identifier (DPID)	The numeric descriptor for a postal delivery point, which is equal to a physical address. An Australia Post assigned identifier.
Distribution Loss Factor (DLF)	Used to scale a metered quantity from the metering location to the relevant Transmission Network Connection point.
DLF	Distribution Loss Factor
Entity	A discrete screen or process for which access rights can be assigned.
First Tier Consumer	An end use customer whose energy retailer is the local retailer.
First Tier NMI	A NMI, the electricity associated with which, is purchased at a connection point directly and in its entirety from the Local Retailer and which is classified as a first tier load.
FRC	Full Retail Competition.
FRMP	Financially Responsible Market Participant (see NER). In the case of these procedures, this is usually the retailer.
Host Retailer	See Local Retailer.
Interactive Entity Table	The Interactive Entity table is the table that allows Create, Read, Update or Delete privileges for an interactive Entity to be assigned to a right. This will determine what a user can access once they login to MSATS.
Interval Meter	Meter which measures consumption of electricity for each specified interval (usually half-hourly to align with wholesale market trading intervals). Can be manually read or remotely read using a communications network.
Jurisdiction	Locality in which a NMI belongs for the purposes of determining the regulation that applies; generally, state and territory boundaries.
LNSP	Local Network Service Provider.
Local Area	The geographical area allocated to a Network Service Provider by a Jurisdictional Regulator.
Local Retailer	In relation to a local area, the customer who is: A business unit or related body corporate of the relevant Local Network Service Provider; or Responsible under the laws of the relevant participating jurisdiction for the supply of electricity to franchise customers in that local area; or If neither 1 nor 2 is applicable, such other customer as AEMO may determine.
Lot Number	The lot reference number allocated to an address prior to street numbering.
Market Customer	A Customer who has classified any of its loads as a market load and who is also registered by AEMO as Market Customer.
Market participant	A person who is registered by AEMO as a Market Generator or a Market Customer under Chapter 2 of the NER.
MarketNet	AEMO's (Electricity) network infrastructure which is used to facilitate the operation of the market.

Term	Definition
MAS	AEMO's (Electricity) Metering Administration System, replaced by MSATS in January, 2002.
MDM	Meter Data Management system.
MDP	Meter Data Provider The party responsible for the delivery of energy data to AEMO for metering installations as defined in MSATS.
Meter	A device complying with Australian Standards which measures and records the production or consumption of electrical energy.
Meter Serial ID	A serial number that uniquely identifies each metering installation record associated with a NMI.
Metering Installation Type	A code that identifies the type of meter(s) that are attached to a NMI, for example Interval, or Basic and, for each type, whether they are manually or remotely-read.
Metering Provider (MP)	A person who meets the requirements listed in Schedule 7.4 of the National Electricity Rules and is registered with AEMO as a Metering provider.
EMMS	Electricity Market Management System (formerly MMS), operated by AEMO.
MSATS	Market Settlement and Transfer Solution.
NEM	National Electricity Market.
NER	National Electricity Rules.
Network Service Provider	A person who engages in the activity of owning, controlling, or operating a transmission or distribution system and who is registered in that capacity with AEMO.
Network Tariff	The rate the network business charges the retailer for the use of their network.
New Parties	Entities that are associated with the meter installation and retail arrangements to which a consumer desires to transfer to.
NMI	Means a National Metering Identifier as described in clause 7.3.1(d) of the National Electricity Rules.
NMI Address	The address where the connection point that the NMI refers to is located (the site address). During a consumer transfer, this information is supplied to the new retailer by the LNSP and acts as a check that the correct NMI has been identified.
NMI Checksum	A number, one digit in length, which is used to validate that a NMI supplied to CATS is a valid NMI.
NMI Classification	A code that identifies the type of consumer to which a NMI belongs, e.g. > Large or small wholesale generators.
NMI Standing Data	The categories of data, that are contained within a schedule(s) provided to AEMO by a Jurisdictional Regulator(s), which AEMO is required to make available to Code participants in accordance with clause 3.13.11 for the purpose of pre-consent market facilitation, and for the avoidance of doubt, does not include any metering data or other details of an end-use customer's consumption at that connection point.
NMI Status	A code that identifies the status of a NMI, for example Active or Inactive.
NSLP	Net System Load Profile. A profile shape calculated from interval data for metered inputs (e.g. TNI data) less interval data (metered or derived) outputs, to derive an average load shape for the remaining energy in the Profile Area. Net System Load is the residual of the total system load, (net off and the peel off.). The Net Off consists of all of the Interval Meters. The Peel Off consists of profiles that have been applied to other basic meters, as defined by the jurisdictional rules.
NSRD	Next Scheduled Read Date.

Term	Definition
Participant	Organisations registered to participate in the National Electricity Market. In MSATS and in this guide, the term participant is used to represent any organisation that has been registered to access MSATS. It includes registered service providers not just code participants and not just market participants.
Participant Administrator	System administrator at a participant site. A participant administrator has limited system administration rights as defined in their associated participant administrator right.
Participant user	A participant's user who uses MSATS to view and retrieve information.
PPS	Profile Preparation Service. The PPS calculates profile shape(s) by using profile algorithm(s) and trading interval energy data.
Pre-consent market facilitation	This term refers to the ability of a party, such as a prospective retailer, to obtain information about a NMI in which it currently does not have an interest. While typically, this may be to obtain information to facilitate quotation and transfer, the policies governing the use of this functionality are determined by jurisdictions and the access and data available is limited based on those policies.
Privilege	Privileges refer to the Create, Read, Update and Delete actions available to an entity. These privileges set the actual access rights to the entity, for example the ability to create or edit a participant record as opposed to just viewing rights to the participant record.
Profile / Profiling	Use of an algorithm to allocate basic meter readings to each ½ hour trading intervals during the meter reading period.
Profile Area	A geographical area comprising a group of one or more TNIs for which a single NSLP shall be calculated.
Profile Name	A code that identifies the name of the algorithmically derived shape that is used to allocate a data stream's consumption data to trading intervals.
Proposed Date of Change	The date when it is proposed to update a NMI's details in CATS. This is the proposed transfer date in the case of a change of retailer.
Read Privilege	Gives the user the access right to view records represented by an entity.
Read Type code	A code required on change request records for a change of retailer transactions that indicates whether or not the transfer is to occur on the next scheduled read date or some other date (e.g. a previous read date).
Registered Participant	As defined in the National Electricity Rules: A person who is registered by AEMO in any one or more of the categories listed in clauses 2.2 to 2.7 (in the case of a person who is registered by AEMO as a Trader, such a person is only a Registered participant for the purposes referred to in clause 2.5A). However, as set out in clause 8.2.1(a1), for the purposes of some provisions of clause 8.2A only, AEMO and Connection Applicants are also deemed to be Registered participants.
Responsible Person (RP)	The person who has responsibility for the provision of a metering installation for a particular connection point, being either the Local Network Service Provider or the Market participant as described in Chapter 7 of the National Electricity Rules.
Retailer	The party from which a consumer has contracted to purchase electricity – used in this document without qualification as a generic retailer. If specifically the network “based” Retailer is termed Local Retailer; if a consumer has moved from their Local Retailer then their Retailer of choice is termed as 2nd tier Retailer.
Retailer of Last Resort	In relation to a jurisdiction, means a person or persons required under the retailer of last resort arrangements of that jurisdiction to assume the obligations under the Rules (including the obligation to pay trading amounts and other amounts due under the National Electricity Rules) of a Market Customer that has defaulted in the performance of its obligations under the Rules.

Term	Definition
Right	This table stores the permitted rights to be used within the system. These rights consist of a collection of entities and the access permitted to each of these entities. Participant administrators can create and edit the rights that can be allocated to users in their organisation.
Role	Roles identify the types of responsibility a participant may play in relation to a NMI. The role a participant can act in determines many of the functions that can be performed in MSATS. Roles are an attribute of a participant not a user.
ROLR	Refer to Retailer of Last Resort.
RP	Refer to Responsible Person.
Second Tier Consumer	End use customers who have transferred to a retailer other than their Local Retailer.
Second Tier NMI	A NMI, the electricity associated with which, is purchased from a retailer other than the Local Retailer.
Super user right	Original full system administrator right that is loaded with the MSATS system. Only AEMO system administrators are assigned this right.
System administrator	AEMO administrator who maintains the participant administrator access to MSATS.
System security	The entities and rights assigned to participants to maintain users' access to different parts of the MSATS system.
TNI	Transmission Node Identifier. Identifies a Transmission Network Connection Point
Unmetered Supply	The consumption volume that is calculated for loads that have no meter (e.g. street lighting etc). Unmetered 'metering data' for Unmetered supplies is submitted to MSATS as interval data (i.e. as if it was an interval type of metering installation).
Update Privilege	Gives the user the access right to update records represented by an entity.
Usage Factor	Usage factor is the method of identifying a given data stream's consumption in terms of its contribution to the "overall sum" of profile loads for a given date range.
Wholesale Connection Points	Connection points located at the Transmission Node representing bulk supply feeders to a distribution network, interconnectors and generation points.
Wholesale Settlement Day	A period of time which constitutes a day for the purposes of wholesale settlement. It is a 24 hour period beginning and ending at midnight Eastern Standard Time (EST).

10.1 Abbreviations

Abbreviation	Abbreviation Explanation
AEMC	Australian Energy Market Commission
CSV	Comma Separated Variable; a file format for data using commas as delimiters
EMMS	Electricity Market Management System (formerly MMS); software, hardware, network and related processes to implement the National Electricity Market (NEM)
MT PASA	Medium-term Projected Assessment of System Adequacy; 2 years worth of data
NEM	National Electricity Market
NER	National Electricity Rules

Table 1: Abbreviations

10.2 Special Terms

Term	Definition
Rules	National Electricity Rules

Table 2: Special terms

11 References

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



Note: it is important to ensure that you are reading the current version of any document.

- About Administration: for information about using Set Participant (e.g. for agents), see the “About Administration” menu, when logged into the EMMS Web Portal.
- AEMO Help Desk: phone: 1300 300 295, option 2; e-mail: helpdesk@aemo.com.au.
- National Electricity Rules: see the AEMC website <http://www.aemc.gov.au>.

11.1 AEMO’s website

The following documents are found on AEMO’s website:

- “Guide to Market Systems – Gaining Access”, for information on access to AEMO’s Web Portals. Participants wishing to use AEMO’s Web Portals are required to have access to the AEMO Market Systems using the MarketNet Private Network. MarketNet provides information using web interfaces to participants, available from <http://www.aemo.com.au/registration/nemnet.html>.
- Participant Administration: For information about managing a Web Portal account (accounts are created in MSATS), see the “Participant Rights Administration User Interface Guide”, available from <http://www.aemo.com.au/electricityops/userguide.html>.

11.2 EITS publications

Participant users with the credentials can find the following documents in the secure [EITS Publications](#) area on AEMO’s website (application to AEMO’s Help Desk). Documents in “EITS Publications” are available to registered participants only.

- “AEMO CSV Data Format Standard”, describes the CSV standard used within flat files provided to participants. Its primary function is to provide sufficient information to allow participants to understand the AEMO CSV data format standard.
- “AEMO’s IP Addresses for Participants”, provides information about URLs for accessing AEMO’s IT systems.
- “Electricity Market Management Systems (EMMS) Web Portal Applications”, provides a summary of EMMS Web Portal applications, to assist participants with decisions about AEMO’s IT systems.
- “Guide to Market Systems – Maintaining and extending Access”, provides high-level, summary information about AEMO’s IT systems, to assist participants with decisions about usage of the data interfaces to AEMO’s systems.
- “Web Portal Login User Guide”: for information on how to log on to AEMO’s Web Portals.

11.3 Information centre

The AEMO Information Centre provides an information service for all interested parties, from NEM participants to the general public, providing information regarding AEMO NEM operations and the electricity industry generally.

- Telephone: 1300 361 011. E-mail: infocentre@aemo.com.au.