

# RCM 3.1 Release Notes

September 2024



# Important notice

## Purpose

AEMO has prepared this document to provide information about the RCM 3.1.122 (build 20240910.2) release as at the date of publication.

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## Version control

Version	Release date	Changes
1	05/09/2024	Initial publication.
2	12/09/2024	Minor update to version and build

## Document approval

Name	Position	Date
Amy Tait	Group Manager, WA Market Development & Energy Procurement	27/08/2024



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# 1 Introduction

## 1.1 Overview

These are the release notes for the Reserve Capacity Mechanism (RCM) Portal 3.1.122 (build 20240910.2). This release includes the changes to the RCM Portal required for the Capacity Credit nomination, Facility Sub-Metering and Reserve Capacity (RC) Testing processes for the 2024 Reserve Capacity Cycle.

These changes affect the Home (Facility Management) and RC Testing tabs in the RCM Portal and include:

- Introduction of Market Participant nominations under clause 4.20.16 of the Wholesale Electricity Market Rules (WEM Rules).
- Introduction of Facility Sub-Metering for Facilities with multiple components.
- Updating RC Testing to component level for Scheduled Facilities and Semi-Scheduled Facilities.

These changes are explained in further detail in Section 2.

## 1.2 Supporting documentation

The RCM User Guide has been updated for this release and is available on AEMO's website<sup>1</sup>.

## 1.3 Version summary

The change in versions post-deployment of this release is summarised in Table 1. To view the current application version, navigate to **Help > About** in the Market Participant Interface (MPI).

**Table 1** Version summary

Application	Current version	New version
RCM Operations	3.0.135	3.1.122

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<sup>1</sup> Available at: <https://aemo.com.au/en/energy-systems/electricity/wholesale-electricity-market-wem/procedures-policies-and-guides/guides>

## 1.4 Terms and abbreviations

The terms and abbreviations used in this document are outlined in Table 2.

**Table 2** Terms and abbreviations

Abbreviation	Expanded name
AEMO	Australian Energy Market Operator
CC	Capacity Credits
CRC	Certified Reserve Capacity
DSP	Demand Side Programme
ESR	Electric Storage Resource
NAQ	Network Access Quantity
NIGS	Non-Intermittent Generation System
RC Testing	Reserve Capacity Testing
RCM	Reserve Capacity Mechanism
SCC	Separately Certified Components
SF	Scheduled Facility
SSF	Semi-Scheduled Facility
WEM	Wholesale Energy Market

# 2 RCM Portal changes

## 2.1 Facility Management page

### 2.1.1 Nomination of Capacity Credits assigned to components

When a Facility has multiple components or component upgrades, and the assigned Capacity Credits is less than the Traded Certified Reserve Capacity (CRC) (i.e. the NAQ has reduced the Facility’s CRC), the Market Participant must nominate the quantity of Capacity Credits to be assigned to each component (clause 4.20.16 of the WEM Rules).

This nomination is made through the Facility Management page in the RCM Portal (see Figure 1) and will be displayed for affected Facilities after the time and date specified in clause 4.1.16A of the WEM Rules<sup>2</sup>.

**Figure 1 Initial view**

Capacity Credit nomination for Components

			<input type="button" value="Edit"/>
<b>Facility Name</b>	Assigned Capacity Credits	Remaining	
	47.5	47.5	
<hr/>			
<b>ESR Component</b>	Traded	Nomination *	
	20	<input type="text"/>	
<b>NIGS Component</b>	Traded	Nomination *	
	31.5	<input type="text"/>	

Clicking the Edit button will allow the Nomination fields to be updated (see Figure 2). The Remaining quantity will update as the nomination changes. Clicking the Cancel button clears the nominations and returns the page to read-only.

<sup>2</sup> The timetable for the 2024 Reserve Capacity Cycle can be found [here](#).

**Figure 2 Edit view**

Capacity Credit nomination for Components

			<input type="button" value="Cancel"/>	<input type="button" value="Save"/>
<b>Facility Name</b>	Assigned Capacity Credits	Remaining		
	47.5	-2		
<hr/>				
<b>ESR Component</b>	Traded	Nomination *		
	20	<input type="text" value="18"/>		
<b>NIGS Component</b>	Traded	Nomination *		
	31.5	<input type="text" value="31.5"/>		

The nomination must be less than or equal to the Traded CRC for the applicable component or upgrade. If it is not, then a validation message will be displayed and the Save button will be disabled (see Figure 3).

**Figure 3 Nomination validation**

Capacity Credit nomination for Components

			<input type="button" value="Cancel"/>	<input type="button" value="Save"/>
<b>Facility Name</b>	Assigned Capacity Credits	Remaining		
	47.5	-33.5		
<hr/>				
<b>ESR Component</b>	Traded	Nomination *		
	20	<input type="text" value="21"/>		
			The Nomination must be less than or equal to 20	
<b>NIGS Component</b>	Traded	Nomination *		
	31.5	<input type="text" value="60"/>		
			The Nomination must be less than or equal to 31.5	

Clicking the Save button will validate if the nomination amount equals the Assigned Capacity Credits. An error message will display if the Remaining quantity does not equal zero (see Figure 4).



**Figure 4 Error message**

Capacity Credit nomination for Components

There was an error saving the nomination ✕

- 'Remaining' must be equal to 0.

Cancel Save

Facility Name	Assigned Capacity Credits	Remaining
	47.5	-2
<hr/>		
ESR Component	Traded 20	Nomination* <input type="text" value="18"/>
NIGS Component	Traded 31.5	Nomination* <input type="text" value="31.5"/>

On successfully saving the nomination, the Submit button will become available (see Figure 5). A popup window will display asking the user to confirm the nomination. Click Confirm in the popup window to commit the nomination, or click the Cancel button to return to editing the nomination. Clicking confirm will display a message that the nomination is saved successfully.

**Figure 5 Submit nomination**

Capacity Credit nomination for Components

Edit Submit

Facility Name	Assigned Capacity Credits	Remaining
	47.5	0
<hr/>		
ESR Component	Traded 20	Nomination* <input type="text" value="16"/>
NIGS Component	Traded 31.5	Nomination* <input type="text" value="31.5"/>

Once the nomination has been confirmed, it cannot be changed (see Figure 6). The nomination may be viewed in the Facility Management page but cannot be edited or re-submitted.

## Figure 6 Completed nomination

Capacity Credit nomination for Components

Facility Name	Assigned Capacity Credits	Remaining
	47.5	0
ESR Component	Traded 20	Nomination* 16
NIGS Component	Traded 31.5	Nomination* 31.5

### 2.1.2 Introduction of Facility Sub-Metering

When a Scheduled Facility (SF) or Semi-Scheduled Facility (SSF) has multiple components with assigned Capacity Credits, the Market Participant must submit Facility Sub-Metering data for all but one of the Facility's components. For example, if a Facility has two components, the Market Participant must submit Facility Sub-Metering data for at least one of the Facility's components. This data is used for RC Testing and CRC purposes.

Facility Sub-Metering data is submitted through the Facility Management page (see Figure 7). The Facility Sub-Metering section will only appear for Facilities that have Capacity Credits assigned to multiple components.

**Figure 7 Facility Sub-Metering user interface**

**Home**
Indicative Facility Class
CRC Application
Security
Trade Declaration
CDA
NTDL
Capacity Allocation
IRCR
Peak Intervals
RC Testing

➤
2023 - 2024
**2024 - 2025**
2025 - 2026
2026 - 2027
2027 - 2028

SSF

**Facility**

Committed (21/04/2023)

Effective 14/08/2024

Capacity Credits:	<b>100.00</b>	EPOH:	-
NAQ:	<b>100.00</b>		
Price:	<b>\$100,000.00</b>		

Components

Component Name ↕	CC (Capacity Credits) ↕	Effective From ↕	Effective To ↕	Note ↕	Participant Reduction ↕	
ESR Component	<b>80.00</b>	01/01/2024 08:00	01/10/2025 08:00	RCM assigned CC - Appendix 3		<a href="#" style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 3px;">Details</a>
IGS Component	<b>20.00</b>	01/01/2024 08:00	01/10/2025 08:00	RCM assigned CC - Appendix 3		<a href="#" style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 3px;">Details</a>

Facility Sub-Metering

Component Name	Effective From	Effective To	Status	Data	Override Data
There are no results to display					

Upload Data

Clicking on the Upload Data button will expand the interface (see Figure 8). A template file can be downloaded from underneath the file upload box. All fields are mandatory (denoted by the red asterisk) and must not be empty to enable the Save button. Clicking in the Component field opens a drop-down box allowing the user to select the component from a pre-filled list of options that includes all of the Facility’s components.



**Figure 8 Upload user interface**

Facility Sub-Metering

Component Name	Effective From	Effective To	Status	Data	Override Data
There are no results to display					
Upload Data					
Component*	Effective From*	Effective To*		<input type="button" value="Save"/>	<input type="button" value="Cancel"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>			
File Upload*					
No documents uploaded					

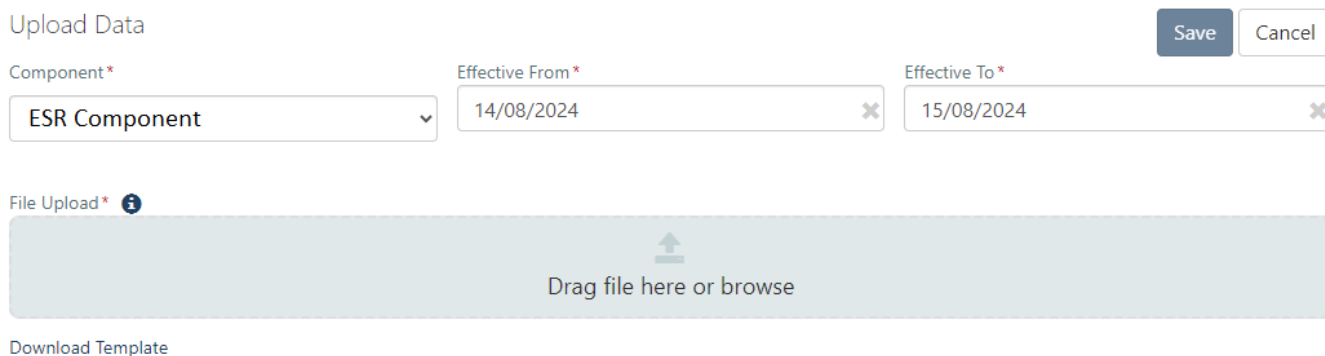
Validations are applied to the Effective From and Effective To dates to ensure that:

- The Effective From date is before the Effective To date.
- Both dates are within the relevant Capacity Year.
- The format is dd/mm/yyyy.

The Save button will be disabled if the user enters dates that do not conform to these validations.

Once the component has been selected and the Effective From and Effective To dates have been entered, the File Upload box will become visible (see Figure 9). A data file can be uploaded by dragging and dropping or clicking inside the box to allow the user to select a file.

**Figure 9 File Upload displayed**



The screenshot shows a web form titled "Upload Data". At the top right are "Save" and "Cancel" buttons. Below the title are three input fields: "Component\*" with a dropdown menu showing "ESR Component", "Effective From\*" with the date "14/08/2024", and "Effective To\*" with the date "15/08/2024". Below these is a "File Upload\*" section with a light blue box containing an upload icon and the text "Drag file here or browse". At the bottom left is a "Download Template" link.

The Facility Sub-Metering data upload file is validated as follows:

- File type is csv.
- Headers are correct and all columns are included in the file according to the template.
- All columns of the csv contain data.
- Trading Interval format is dd/mm/yyyy hh:mm.
- Component name in the csv matches the component name selected in the drop-down list.
- Data is for the period entered into the Effective From and Effective To date fields (e.g. if the Effective From date is 01/10/2024 and the Effective To date is 31/10/2024, the uploaded file must include all Trading Intervals between 08:00 01/10/2024 to 07:30 01/11/2024 inclusive).
- Trading Intervals in the csv are within the relevant Capacity Year (e.g. for 2024-25 CY data must be within the period 08:00 01/10/2024 to 07:30 01/10/2025 inclusive).

An error message will be displayed if the file does not pass any of these validations (see Figure 10).

**Figure 10 Error message example**

Upload Data [Save](#) [Cancel](#)

Component\*  Effective From\*  Effective To\*

File Upload\*

Upload failed for 'Facility\_SubMetering\_Template.csv'. The document was in an invalid format. Please check the document against the downloadable 'Document Template' provided and try again.

- Invalid number of columns: should be 4 ('Facility', 'Component', 'Trading Interval', 'Estimated Output'). Occurred 1 times.

[Download Template](#)

The Save button will be activated when all fields have been entered and a valid file has been uploaded (see Figure 11).

**Figure 11 Active Save button when all information is entered and validated**

Upload Data [Save](#) [Cancel](#)

Component\*  Effective From\*  Effective To\*

File Upload\* Facility\_SubMetering\_Template.csv (229 B)

Clicking on the Save button will submit the Facility Sub-Metering data for AEMO’s review (see Figure 12). The data can be downloaded by clicking the link under the Data column in the table. The Market Participant may upload a subsequent Facility Sub-Metering data file for a different period.

**Figure 12 Submitted Facility Sub-metering data**

Facility Sub-Metering

Component Name	Effective From	Effective To	Status	Data	Override Data
ESR Component	14/08/2024 08:00	15/08/2024 08:00	SUBMITTED	FSM.csv	

[Upload Data](#)

The status will update to ACCEPTED or REJECTED once AEMO has processed the Facility Sub-Metering data (see Figure 13). The Market Participant will be notified of AEMO’s decision by an automated email. If AEMO rejects the Facility Sub-Metering data, the Market Participant will be able to upload a new file for the same dates.

**Figure 13 Assessed FSM**

Facility Sub-Metering

Component Name	Effective From	Effective To	Status
IGS Component	01/10/2024 08:00	01/11/2024 08:00	ACCEPTED
IGS Component	01/11/2024 08:00	01/12/2024 08:00	REJECTED

In some circumstances (for example, an error in the data is identified after it has been accepted), AEMO may override the data with a replacement file. If AEMO overrides the Facility Sub-Metering data, the Status will show as OVERRIDDEN.

### 2.1.3 Other changes

- Price Type column is removed from the Facility table on the Home page.
- Capacity Credits and Prices are now displayed on the Component Capacity Credits Timeline where applicable.

## 2.2 RC Testing tab

### 2.2.1 User interface updates

The Market Participant view in the RC Testing tab has been updated to reflect that testing is now conducted at a component level for SF and SSF.

Each Non-Intermittent Generating System (NIGS) and Electric Storage Resource (ESR) component of a SF or SSF will have a record in the RC Testing page (see Figure 14). These records display the component name, fuel type (for NIGS only) and the technology type (NIGS or ESR).

Figure 14 RC Testing component record

Testing Status: Not Passed					
FACILITY_NIGS_01	Observation 01 Jun - 01 Apr	RC Test 1	RC Test 2	RC Test 3	Detailed Report
Non liquid NIGS	<b>Not Passed</b>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	

The detailed report has been updated to return data for the component, including Facility Sub-Metering data if relevant.

The presentation of results for ESR components has been improved. It now displays the date on which the result was achieved, the adjusted output at 41 degrees over the ESR Obligation Duration, and the Capacity Credits (see Figure 15).

Figure 15 ESR component record showing updated result presentation

Testing Status: Passed					
FACILITY_ESR_01	Observation 01 Jun - 08 Aug	RC Test 1	RC Test 2	RC Test 3	Detailed Report
ESR	<b>Passed</b>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	
	02/06/2024 153.781 MW @ 41°C 100 Capacity Credits				

### 2.2.2 Other changes

- Market Participants will receive an automated email notification if AEMO cancels an RC Test.
- Updated automated emails to reflect the latest WEM Rules.
- New email reminder to Market Participants with Facilities with multiple components to submit Facility Sub-Metering data within five Business Days of a Reserve Capacity Test.





## 3 Market trial

AEMO has scheduled a Market Trial period from 11 to 18 September 2024.

Questions and feedback can be directed to the WA Capacity Market Investment team at [wa.capacity@aemo.com.au](mailto:wa.capacity@aemo.com.au).