



RCM 1.20 and WEMS 3.39 Release Notes

April 2021

Important notice

PURPOSE

The Australian Energy Market Operator (AEMO) has prepared this document to provide information about changes incorporated in the latest release to the Wholesale Electricity Market System (WEMS) and Reserve Capacity Mechanism (RCM) as at the date of publication.

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VERSION CONTROL

Version	Release date	Changes
1.0	19/04/2021	Initial publication for RCM 1.20 and WEMS 3.39 Market Trial release
1.2	3/05/2021	Revised WEMS 3.39 build number
1.3	24/06/2021	Inclusion of information for WEMS 3.39 patch.

DOCUMENT APPROVAL

Name	Position	Date
Martin Maticka	Group Manager, WA Markets	17/04/2021

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1. Introduction

1.1 Overview

These are the release notes for the Reserve Capacity Mechanism (RCM) 1.20 (Build 1.20-2992-1) and Wholesale Electricity Market Systems (WEMS) 3.39 (Build 3.39-1537-2). This release includes the redevelopment of the Reserve Capacity Testing tool, which complies with the changes to Reserve Capacity Testing for Demand Side Programmes (DSP) that will commence on 1 October 2021¹.

The system changes under this release are described in the sections below.

1.2 Supporting documentation

The following documents have been updated for this release and should be read in conjunction with these release notes:

- WEMS Market Participant Interface (MPI) User Guide
- WEMS Report and Web Services Specification

1.3 Version summary

Table 1 summarises the changes in version post deployment of this release.

Table 1 RCM version summary

Application	Current version	New version
RCM	1.19 (Build 1.19-2991-1)	1.20 (Build 1.20-2992-1)
WEMS	3.38 (Build 3.38-1536-1)	3.39 (Build 3.39-1537-2)

To view the current version of the MPI, please navigate to **Help > About** in the MPI.

1.4 Abbreviations

Table 2 outlines the abbreviations used in this document.

Table 2 Abbreviations

Abbreviation	Expanded name
AEMO	Australian Energy Market Operator
DSP	Demand Side Programme
MPI	Market Participant Interface
RCM	Reserve Capacity Mechanism
WEMS	Wholesale Electricity Market System

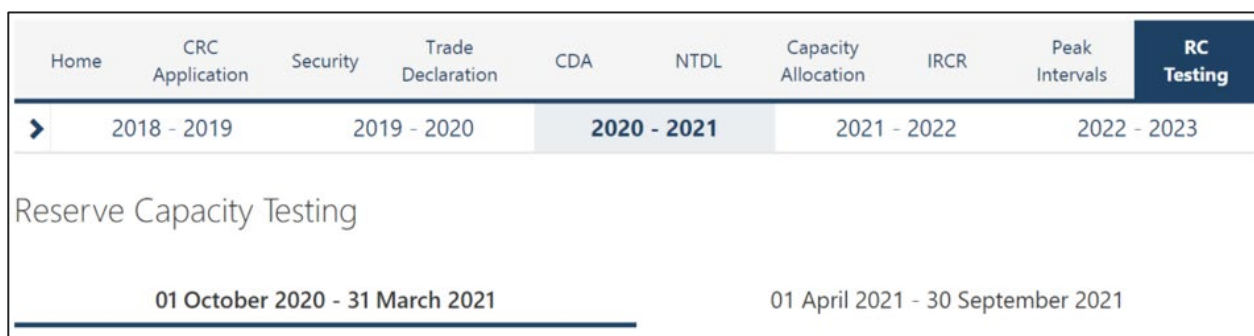
¹ In February 2020, the Minister for Energy amended the Wholesale Electricity Market Rules to change the provisions for Reserve Capacity Testing for DSPs, among other changes. Further details can be found at: <https://www.era.com.au/cproot/21078/2/Wholesale-Electricity-Market-Amendment-Reserve-Capacity-Pricing-Reforms-Rules-2019---Final.pdf>.

2. RCM portal changes

2.1 Reserve Capacity Testing page

The Reserve Capacity Testing page in the RCM portal (accessed through MPI > Reserve Capacity > Reserve Capacity Mechanism) is used to view the results of Reserve Capacity Tests conducted in accordance with section 4.25 of the Wholesale Electricity Market Rules. Either the summer (1 October to 31 March) or winter (1 April to 30 September) testing periods can be selected within a Capacity Year.

Figure 1 The Reserve Capacity Testing tab in the RCM portal



Testing results for periods prior to the 2020-21 Capacity Year winter testing period will not be available through the RCM portal. The previous version of the Reserve Capacity Testing tool (accessed through MPI > Reserve Capacity > RC Testing) will be removed. All reports (accessed through MPI > Reports > View) will be retained as a read-only archive for periods prior to the 2020-21 Capacity Year winter testing period.

Individual Facility records

Each Facility owned by a Market Participant for the selected testing period (summer or winter) will appear in a list of individual Facility records. Table 3 provides further detail about each of the fields in the Facility records.

The Detailed Report button (shown in Figure 2 and Figure 3) extracts metered data (adjusted to 41°C for Scheduled Generators) for every Trading Interval in the selected Reserve Capacity testing period. The report is emailed to the requestor's (Market Participant account holder or AEMO) email address.

Scheduled Generator records, shown in Figure 2, are available during both summer and winter testing periods.

Figure 2 Facility records for a Scheduled Generator

Testing Status: Passed					
Facility name	Observation	RC Test 1	RC Test 2	RC Test 3	Detailed Report
Fuel type	Passed	Not Available	Not Available	Not Available	
SG	22/12/2020 04:00 MW @ °C MW @ 41°C Capacity Credits				

DSP records, as shown in Figure 3, only appear during a summer (1 October to 31 March) testing period. DSPs have Verification Test fields instead of an Observation field.

The Request Verification Test button is used to notify AEMO of the Trading Intervals during which a Market Participant intends to perform a Verification Test for a DSP.

Figure 3 Facility records for a DSP

Facility name	Verification 1	Verification 2	RC Test 1	RC Test 2	
DSP	Passed	Not Available	Passed	Not Available	Request Verification Test Detailed Report
	17/10/2020 15:00 MW Capacity Credits Relevant Demand		05/11/2020 07:00 MW Capacity Credits Relevant Demand		
			05/11/2020 07:30 MW Capacity Credits Relevant Demand		

Table 3 explains each field in the Facility records for Scheduled Generators and DSPs.

Table 3 Description of fields for Facility records

Field	Scheduled Generator	DSP
Facility identification information	<ul style="list-style-type: none"> Facility short name. Fuel type (from certification records for the relevant Capacity Year). Facility Class. 	<ul style="list-style-type: none"> Facility short name. Facility class.
Testing status	Overall testing status of the most recent result which can be either: <ul style="list-style-type: none"> Not Passed (for Scheduled Generators during the observation test phase only). Not Available (for DSPs only where a Verification Test has not been requested). Passed. Failed. 	
Observation	Displays the result for the Trading Interval with the highest output over the observation period and the following information: <ul style="list-style-type: none"> Output at the ambient temperature. Output adjusted to 41°C. Capacity Credits. 	NA
Verification (1 and 2)	NA	Displays the outcome of the first and second (if required) Verification Tests, and, for the Trading Interval with the highest curtailment, the following information: <ul style="list-style-type: none"> Actual meter reading. Capacity Credits. Relevant Demand. Where a Verification Test has not been scheduled, the status will be Not Available.
RC Test 1	Displays the outcome of the first Reserve Capacity Test (Passed or Failed) and, for each Trading Interval, the following information: <ul style="list-style-type: none"> Output at the ambient temperature. Output adjusted to 41°C. 	Displays the outcome of the first Reserve Capacity Test (Passed or Failed) and, for each Trading Interval, the following information: <ul style="list-style-type: none"> Output at the ambient temperature. Output adjusted to 41°C

Field	Scheduled Generator	DSP
	<ul style="list-style-type: none"> Capacity Credits. Where test data has not been received, the status will be Failed and the results will show as Not Available.	<ul style="list-style-type: none"> Capacity Credits. Where test data has not been received, the status will be Failed and the results will show as Not Available.
RC Test 2	Displays the same information as for the first Reserve Capacity Test.	Displays the same information as for the first Reserve Capacity Test.
RC Test 3	Displays the same information as for the first Reserve Capacity Test, but the outcome is Third Test Executed.	NA

2.2 Email notifications

Market Participants will receive automated notifications, sent to the main contact user in WEMS, when any of the following occur:

- AEMO requests a first or second Reserve Capacity Test.
- AEMO approves or rejects a Verification Test request for a DSP.
- Capacity Credits are reduced following failure of a Verification Test (for DSPs only) or a second Reserve Capacity Test.
- Capacity Credits are updated following a third Reserve Capacity Test.

2.3 AEMO changes

New AEMO functionality has been introduced to complement the changes seen by Market Participants. Some examples of these changes include:

- Ability to request Reserve Capacity Tests.
- Approval or rejection of Verification Tests for DSPs.
- Upload functions for temperature dependence curves and fuel declarations.
- Capacity Credit updates when a Facility fails a second Reserve Capacity Test or completes a third Reserve Capacity Test which automatically update the Facility Management page in the RCM portal.

2.4 Market trial

Market trial for this release commences on 27 April 2021. AEMO encourages Market Participants to view the new Reserve Capacity Testing page and provide any feedback to wa.capacity@aemo.com.au by 12 May 2021.

3. DSP Non-Dispatchable Load Association Form

To support the Wholesale Electricity Market Amendment (Miscellaneous Amendments No.1) Rules 2021², that commence on 1 July 2021, AEMO has implemented the following change to the WEMS MPI.

As Trading Day 1 July 2021 a Market Customer with a Demand Side Programme must provide the single Transmission Node Identifier for the Associated Load, in accordance with WEM Rule 2.29.5B(bA).

To make the required update Market Customers can navigate to Registration → Participant. In the left-hand menu, the DSP NDL Association Application Form can be accessed by selecting Application Forms → DSP NDL Association.

The Transmission Node Identifier, a four-digit alphanumeric code, can be entered in *The single Transmission Node Identifier for the Load (TNI Code)* field.

Figure 4 DSP NDL Association Application Form in WEMS MPI

² <https://www.erawa.com.au/cproot/21984/2/Wholesale-Electricity-Market-Amendment-Miscellaneous-Amendments-No.-1-Rules-2021.pdf>

4. Weekly Market Report

The Weekly Market Report provides a snapshot of weekly activities in the WEM Energy Market. The Weekly Market Report focuses on:

- Temperature, Actual Load, and Forecast Load.
- Total Participant Supply and Aggregate Bilateral Contract Positions.
- Net Balancing Market Trades.
- Total Traded Energy.
- STEM and Balancing Comparison.

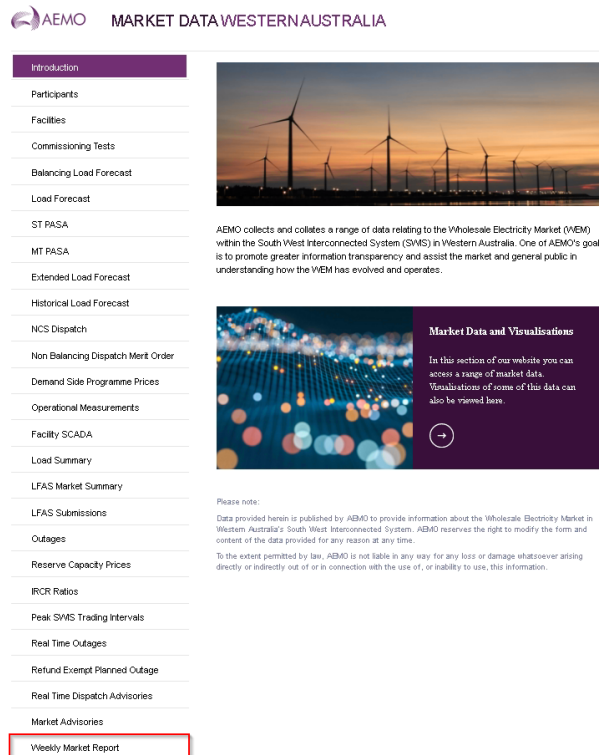
Each report covers one Trading Week, commencing at 08:00 on a Thursday, with week references as per the [Settlement Cycle Timeline](#). The Weekly Market Report is currently created and published manually on the website by AEMO³.

In this release, AEMO will be automating the publication of the data on the AEMO Public Data Site.

As of 16 June 2021, the Weekly Market Report will be updated weekly on Tuesdays at 08:30 AWST for the previous Trading Week as a CSV file. This report will be exclusively published on the AEMO Public Data Site (PDS)⁴. All Weekly Market Reports dating back to Balancing Market commencement on 1 July 2012 will be published when this change is deployed. The existing Weekly Market report webpage will no longer be updated.

AEMO will consider opportunities to expand the data visualisations in an upcoming release to capture some of the charts in the current associated PDFs which will be retired as part of this release.

Figure 5 AEMO Public Data Site (PDS) – Weekly Market Report



³ <https://aemo.com.au/energy-systems/electricity/wholesale-electricity-market-wem/data-wem/weekly-market-report>

⁴ <http://data.wa.aemo.com.au/>

Figure 6 Weekly downloadable CSVs

Download CSV

2021 2020 2019 2018 2017 2016 2015 2014 2013
2012

Week 11 Week 10 Week 09 Week 08 Week 7 Week 6
Week 5 Week 4 Week 3 Week 2 Week 1

Field Definitions (V1) [Expand all](#) [Collapse all](#) [Download](#)

Trading Date	YYYY-MM-DD
Interval Number	1-48
Trading Interval	YYYY-MM-DD HH:MM:SS
Load Forecast (MWh)	MWh
Operational Load (MWh)	MWh
Maximum Temperature	Degrees Celsius
Supply Limit (MWh)	MWh
STEM Price (\$/MWh)	\$/MWh
Balancing Price (\$/MWh)	\$/MWh
Variance (\$/MWh)	\$/MWh
Balancing Trade Estimate (MWh)	MWh
Bilateral Trades (MWh)	MWh
STEM Trades (MWh)	MWh
RDQ (MW)	MW
Extracted At	YYYY-MM-DD HH:MM:SS