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# WEMS 3.31 Release Notes

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# Important notice

## PURPOSE

The Australian Energy Market Operator has prepared this document to provide information about the Wholesale Electricity Market System (WEMS) 3.31 (Build 3.31-1478-2) release as at the date of publication.

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## VERSION CONTROL

Version	Release date	Changes
1.0	11/06/2019	Initial Publication for WEMS 3.31 Market Trial Release

## DOCUMENT APPROVAL

Name	Position	Date
Martin Maticka	Group Manager, WA Markets	07/06/2019

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# 1. Introduction

## 1.1 Overview

These are the release notes for the Wholesale Electricity Market System (WEMS) 3.31 (Build 1478-2).

This WEMS release includes:

- System changes required to implement to RC\_2014\_06 – Removal of Resource Plans and Dispatchable Loads.
- System changes required to implement to RC\_2018\_07 – Removal of constrained off compensation for Outages of network equipment.
- Operational improvements and changes including:
  - Improvements to MPI.
  - A fix to an issue identified with MPI Change Request notification emails.
  - Updating AEMO’s internal RC Testing tool to ensure compliance with MR 4.25.4 and MR 4.25.2(ii).
  - Dispatch Advisory enhancements.

These system changes and issues resolved under this release are described in the sections below.

## 1.2 Supporting Documentation

The following documents<sup>1</sup> have been updated for this release and should be read in conjunction with these release notes:

- WEMS MPI User Guide
- WEMS Report and Web Service Specification
- WEMS Registration Technical Guide
- WEMS Submission Specifications
- WEMS Submission Validations
- WEMS and GBB (WA) Participant Market Support Guide

## 1.3 WEMS and RCM Version Summary

The table below summarises the changes in version post this release deployment.

Table 1: WEMS and RCM Version Summary

Application	Current version	New version
WEMS	3.30 (Build 1459-26)	3.31 (Build 3.31-1478-2)

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

## 1.4 Abbreviations

The following table outlines the abbreviations used in this document:

<sup>1</sup> All available at <https://www.aemo.com.au/Electricity/Wholesale-Electricity-Market-WEM/Participant-information/Guides-and-useful-information>

Table 2: Abbreviations

Abbreviation	Expanded name
AEMO	Australian Energy Market Operator
IPP	Independent Power Producer
MOSMI	Market Operator System Monitoring Interface
MPI	Market Participant Interface
MOP	Market Operator Portal
MR	Market Rule
PCS	Product Configuration Specification
PDS	Public Data Site
RC	Reserve Capacity
RCM	Reserve Capacity Mechanism
RRP	Removal of Resource Plans (Rule change RC_2014_06)
SMITS	System Management IT Systems
WEMS	Wholesale Electricity Market System

## 1.5 Status Legend

The following table outlines the issue statuses used in this document:

Table 3: Status Legend

Status
● Internal changes
● Minimal or no impact to Market Participants
● Needs Market Participants' attention. Potentially requires system or operational procedure changes.

# 2. RC\_2014\_06: Removal of Resource Plans and Dispatchable Loads

## 2.1 Background

On 28 January 2015, the Independent Market Operator submitted a Rule Change Proposal titled "Removal of Resource Plans and Dispatchable Loads" (RC\_2014\_06). On 29 October 2019, the Rule Change Panel published their final decision to accept the Rule Change Proposal in a modified form as set out in section 8 of the Final Rule Change Report<sup>2</sup>.

The effective date of the Rule Change is 1 July 2019. The key changes introduced in this Rule Change that require changes to WEMS are:

- Removal of Resource Plans for the Market Rules;
- Extension of the STEM Submission window by one hour;
- Removal of the Dispatchable Load Facility Class from the Market Rules; and,
- Extension of the Balancing Horizon at 1PM.

## 2.2 Removal of Resource Plans

The RC\_2014\_06 Rule Change removes the requirement for Market Participants to submit Resource Plans daily. A Resource Plan specifies the expected output of each Facility in each Trading Interval, including any self-supplied load.

Accordingly, AEMO has removed the functionality in its operational processes and IT systems to support the submission of Resource Plans. AEMO has removed the Resource Plan standing and variation submission window from WEMS and Resource Plan publications and reports will be end dated from 1 July 2019.

The following reports have been updated, the full detail of each report is available in the WEMS Report and Web Service Specifications document:

- Resource Plan (EM\_ResPlan) - This report will no longer be published.
- Resource Plan Standing Data Conversion (EM\_RPStndConv) - This report will no longer be published.
- Metered Schedules and Resource Plan Information (PUB\_MetSchAndResPlanInfo) - The Resource Plan information will not be populated.

Recommended and required actions for Market Participants are as follows:

- **Market Participants are encouraged to review operational practices and remove processes relating to Resource Plans.**

Table 4: Resource Plan Changes

Reference	Summary
• RRP-38	Remove the Resource Plan submission window

<sup>2</sup> Available at [https://www.erawa.com.au/rule-change-panel/market-rule-changes/rule-change-rc\\_2014\\_06](https://www.erawa.com.au/rule-change-panel/market-rule-changes/rule-change-rc_2014_06)

Reference	Summary
● RRP-36	Remove the Resource Plan Standing Submission window
● RRP-33	End the publication of the Resource Plan report to Market Participants and System Management
● RRP-25	Update Load Summary section of PDS to reflect removal of Resource Plans

## 2.3 STEM Timelines

The RC\_2014\_06 Rule Change extended the STEM Submission window by one hour, to close at 10:50 AM instead of 9:50 AM. Due to this extension, the STEM Auction will run at 11:00 AM and the results will be published at 11:15 AM.

AEMO provides each Market Participant a report detailing accepted STEM Submissions. This report is currently updated at 9:30AM and is therefore static, only showing STEM Submissions as at 9:30 AM. This report has been updated to be dynamic so that it will show the most up to date information when queried. There will be no changes to the existing report name (EM\_FinalSTEMCapObligations), report structure or Web Service.

As a result of the STEM timeline changes, the following reports are now published daily at 11:15 AM for the next trading day, the full detail of each report is available in the WEMS Report and Web Service Specifications document:

- STEM Bids and Offers (EM\_STEMBidsAndOffer)
- STEM Facility Declaration (EM\_STEMResInfo)
- STEM Participant Net Bilateral Position and Declarations (EM\_STEMPartInfo)
- STEM Portfolio Curve (EM\_STEMPortCrv)
- STEM Summary Info (EM\_STEMSummaryInfo)
- STEM Trade Results EM\_STEMResultPartInfo)

Recommended and required actions for Market Participants are as follows:

- **Market Participants are encouraged to review operational practices and to update to account for new STEM timelines.**

Table 5: STEM Changes

Reference	Summary
● RRP-20	Extend STEM submission window to 10:50AM
● RRP-15	New STEM Obligation Report that displays the latest Participant specific STEM submission data
● RRP-14	Run STEM Auction at 11:00AM
● RRP-37	Publish STEM Results to Market Participants and System Management after STEM Auction
● RRP-22	Ensure rerunning Facility Limits calculation returns correct results if updated Load Forecast, Ancillary Service or Outage data is received
● RRP-9	Updated PDS to publish STEM Results at 11:30

## 2.4 Balancing Horizon Changes

Due to Resource Plans being removed, the extension of the Balancing Horizon has been moved forward from 6:00PM to 1:00PM. This will provide System Management with an earlier Forecast BMO to use for dispatch planning in lieu of Resource Plans.

In addition, the ability for a Market Participant to make a Balancing Submission (Variation and Standing) using Resource Plan Quantity will be removed from WEMS, submissions using RPQTY and MAXCAP\_MINUS\_RPQTY will be rejected in WEMS after 1 July 2019. This change is reflected in the WEMS Submission Specification and Validation document.

Recommended and required actions for Market Participants are as follows:

- Market Participants with a Standing Resource Plan submission using RPQTY and MAXCAP\_MINUS\_RPQTY are required to update their Standing submission prior to 1 July 2019.
- Market Participants are encouraged to review operational processes to account for the new Balancing Horizon.

Table 6: Balancing Changes

Reference	Summary
● RRP-29	Reject Balancing Variation Submission types RPQTY and MAXCAP_MINUS_RPQTY after 1 July 2019
● RRP-28	Reject Balancing Standing Submission types RPQTY and MAXCAP_MINUS_RPQTY after 1 July 2019
● RRP-56	Extend Balancing Horizon from 1PM to the end of the next Trading Day
● RRP-90	Performance testing of Forecast BMO calculation due to increased size of Balancing Horizon

## 2.5 Removal of Dispatchable Loads

The RC\_2014\_06 Rule Change has removed the Dispatchable Load Facility Class. Accordingly, the ability to register a facility in the Dispatchable Load Facility Class will be removed from the WEMS MPI on the effective date.

The WEMS Registration Technical Guide has been updated to remove references to Dispatchable Loads.

Table 7: Dispatchable Load Changes

Reference	Summary
● RRP-27	Remove option to create a Facility as a Dispatchable Load in MPI
● RRP-8	Remove option to register a Facility as a Dispatchable Load in MPI
● RRP-4	Update PDS to reflect removal of Dispatchable Loads

## 2.6 AEMO Changes

Additional AEMO functionality has been introduced to complement the changes seen by Market Participants. This functionality is primarily in relation to the monitoring and alerting application MOSMI. These changes



ensure AEMO can effectively managed its obligations to Market Participants as detailed in the WEM and GBB Participant Support Guide<sup>3</sup>.

## 2.7 Changes to Support Arrangements

Due to the changes to the STEM timeline, AEMO has reviewed and updated the support arrangements provided by the WA Market Operations team on weekends and public holidays. Standard Market Operations (WA) support hours on weekends will end at 11:30am from 1 July 2019 (as opposed to 1:00pm currently). There are no other changes to support arrangements and afterhours phone support will start from 11:30am rather than 1:00pm. The full support arrangements provided by WA Market Operations are summarised in the WEM & GBB (WA) Participant Market Support Guide.

## 2.8 Market Trial

Market Trial for this release will commence on 11 June 2019.

The following table summarises the actions that AEMO will undertake during the market trial period to support market participant testing. The recommended market participant actions are summarised in the table. These actions are not mandatory requirements for Market Participants. Market Participants need to make their own assessment of what testing and changes they wish to undertake during this window.

Table 8: Action during Market Trial

Date	Milestone	Recommended Market Participant Actions
11 June 2019	Deploy WEMS 3.31 into Market Trial	
13 June 2019	Scheduling Day - WEMS will function as per current timelines.	Test WEMS functionality as per current rules.
14 June 2019	Effective Date of Rule Change	Test new WEMS functionality including: <ul style="list-style-type: none"> <li>• Make successful STEM submission within 9:00 AM – 10:50 AM window.</li> <li>• Do not make a Resource Plan submission.</li> <li>• Make Balancing Submission for 1:00 PM BMO.</li> <li>• Verify removal of ability to make a Balancing Submission at RPQTY and MAXCAP_MINUS_RPQTY will not impact IT systems,</li> <li>• Verify all reports, systems and queries function as anticipated.</li> </ul>
25 June 2019	Subject to successful Market Participant testing, deployment to Production	Ensure systems and processes are updated to accommodate changes.

AEMO can support market participant testing upon request. Market Participants can provide any feedback in relation to this trial to [wa.operations@aemo.com.au](mailto:wa.operations@aemo.com.au).

In order for AEMO to complete full testing integration with System Management systems (SMITS), AEMO requests Market Participants ensure STEM and Balancing submission are made during the Market Trial period.

<sup>3</sup> Available at <http://www.aemo.com.au/-/media/Files/PDF/wemandgbbwparticipantsupportguide9ee5963f29c46dc8b2c9ff0000bd36b5.pdf>

### 3. RC\_2018\_07: Removal of constrained off compensation for Outages of network equipment.

Under the Market Rules, a Market Generator whose Balancing Facility is dispatched downwards Out of Merit due to an outage of an item of network equipment receives compensation for its Downwards Out of Merit Generation for the relevant Trading Intervals. This compensation (constrained off compensation) is recovered from Market Customers.

On 14 December 2018, the Public Utilities Office (PUO) submitted a Rule Change Proposal titled “Removal of constrained off compensation for Outages of network equipment” (RC\_2018\_07). This Rule Change Proposal sought to remove the payment of compensation to Market Generators when their Balancing Facilities are dispatched downwards Out of Merit due to an outage of any network equipment.

On 30 April 2019, the Rule Change Panel published their final decision to accept the Rule Change Proposal as set out in section 7 of the Final Rule Change Report<sup>4</sup>. The effective date of the Rule Change is 1 July 2019.

The changes introduced in this Rule Change are primarily internal to AEMO’s systems to ensure data flows to the settlement system will correctly calculate constrained off compensation.

From a Market Participant perspective, the Operating Instructions (EM\_OperatingInstruction) report has been updated to include an “E” flag for the case where a Balancing Facility is dispatched downwards Out of Merit due to an outage of any network equipment. The full detail of this report is available in the WEMS Report and Web Service Specifications document.

### 4. Resolved Issues

In addition to the functionality above, the following issues have been resolved in this release.

Table 9: Resolved Issues

Reference	Summary	Resolution
● WEMS-6904	Increase character limit for email field under Participant Information for HTML field in WEMS MPI.	The HTML form where the participant enters this information had a character limit of 40. The character limit of the HTML form has been increased to 50.
● WEMS-6942	Facility Creation email notifications were incorrectly being sent to all participant users in MPI when Facility Creation Change Request was accepted by AEMO.	Emails are no longer sent to all participant users when a Facility Creation is accepted by AEMO; emails will now only be sent to enabled participant users who are nominated as email recipients.

<sup>4</sup> Available at [https://www.erawa.com.au/cproot/20377/2/RC\\_2018\\_07](https://www.erawa.com.au/cproot/20377/2/RC_2018_07) -- Final Rule Change Report.pdf

Reference	Summary	Resolution
● WEMS-6944	<p>RC Testing Tool compliance with MR 4.25.4 and MR 4.25.2(ii).</p> <p>When a Scheduled Generator fails two Reserve Capacity tests the reduction in Capacity Credits should be based on the Trading Interval with the maximum capability achieved in either of the Reserve Capacity tests performed (i.e. the best of four Trading Intervals). AEMO's RC Testing tool was previously calculating the average from two Trading Intervals of each Reserve Capacity test to determine the reduction in Capacity Credits.</p>	<p>AEMO's internal RC Testing tool in the Market Operator Portal (MOP) has been updated to ensure compliance with MR 4.25.2(ii) and MR 4.25.4. The RC Testing dashboard in MPI has been altered to ensure both Trading Intervals from a Reserve Capacity test are displayed.</p>
● SMST	<p>Enhancements to the Dispatch Advisory application.</p>	<p>The Dispatch Advisory application, which is used to send dispatch advisories to Market Participants, has been enhanced internally within AEMO. The only visible change that participants will experience is that the Dispatch Advisories will be sent from a new email address - wa.sm.operations@aemo.com.au.</p>