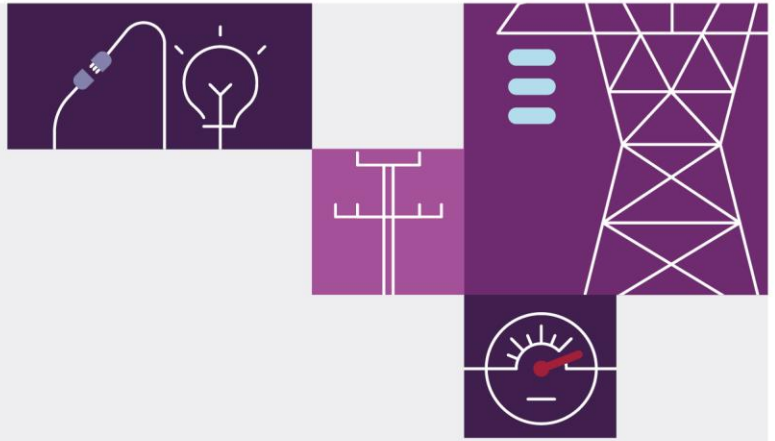# Release Notes: WEM Dispatch Engine 3.0.2

May 2024

Important notice

PURPOSE

The Australian Energy Market Operator has prepared this document to provide information about the WEM Dispatch Engine release as at the date of publication.

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Document version control

Version	Release date	Changes
1.0	13/05/2024	Initial Issue

Document approval

Name	Position	Date
Douglas Birse	Acting Manager, WA Real-Time Market Monitoring	13/05/2024

Contents

1 Introduction

1.1 Overview

These are the release notes for the WEM Dispatch Engine 3.0.2 release.

The changes introduced in this release are described in the sections below.

1.2 Terms and abbreviations

The terms and abbreviations used in this document are outlined in Table 1.

Table 1 Terms and abbreviations

Abbreviation	Expanded name
ESR	Energy Storage Resource
FCESS	Frequency Co-optimised Essential System Services
WEM	Wholesale Electricity Market

2 FCESS Clearing Price Ceiling Defined by Parameters [WEMDE-11]

To facilitate proposed changes to the FCESS Clearing Price Ceiling, AEMO have modified the WEM Dispatch Engine code to use a defined fixed valued as a parameter rather than the calculation as defined within the WEM Rules.

Five new parameters will be included in all WEM Dispatch Engine case files and applied as the FCESS Clearing Price Ceiling:

- RegulationRaiseClearingPriceCeiling
- RegulationLowerClearingPriceCeiling
- ContingencyRaiseClearingPriceCeiling
- ContingencyLowerClearingPriceCeiling
- RocofClearingPriceCeiling

3 Missing Ramp Rate Constraints during Fast Start Operation [WEMDE-15]

In testing of the Fast Start Operation in WEMDE, AEMO were notified by a Market Participant that Ramp Rate Constraints were not applied once the Facility was operating in mode 5. Mode 5 effectively represents the Facility's operation if it remains "in-merit" after the completion of the Fast Start Inflexibility Profile.

AEMO will be proposing updates to Step 1 of the Dispatch Algorithm Solution Process in WEM Procedure Dispatch Algorithm Formulation to align with this change.

4 Resolved Issues

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

Table 2 Resolved Issues

Reference	Summary	Resolution
● WEMDE-7	Error in Charge State Propagation	Correction to sign convention in the projected charge level calculation

Reference	Summary	Resolution
● WEMDE-45	facliityCode.ChargeLevel not included in SCADA tag whitelist leading to constrained dispatch	Inclusion of ChargeLevel SCADA tag in all case files for ESR facilities
● WEMDE-61	Failed solution due to non-continuous tranche number in inServiceCapacityOnly scenario due to the removal of "AVAILABLE" offers during the calculation of Estimated FCESS Uplifts.	Error in code corrected to allow completion of solve and calculation of FCESS Uplift

Table 3 Status Legend

Status
●   Internal AEMO changes. No impact to Market Participants.
●   Additional functionality. Market Participants awareness only.
●   Change to Market Participant functionality. Needs Market Participant attention.