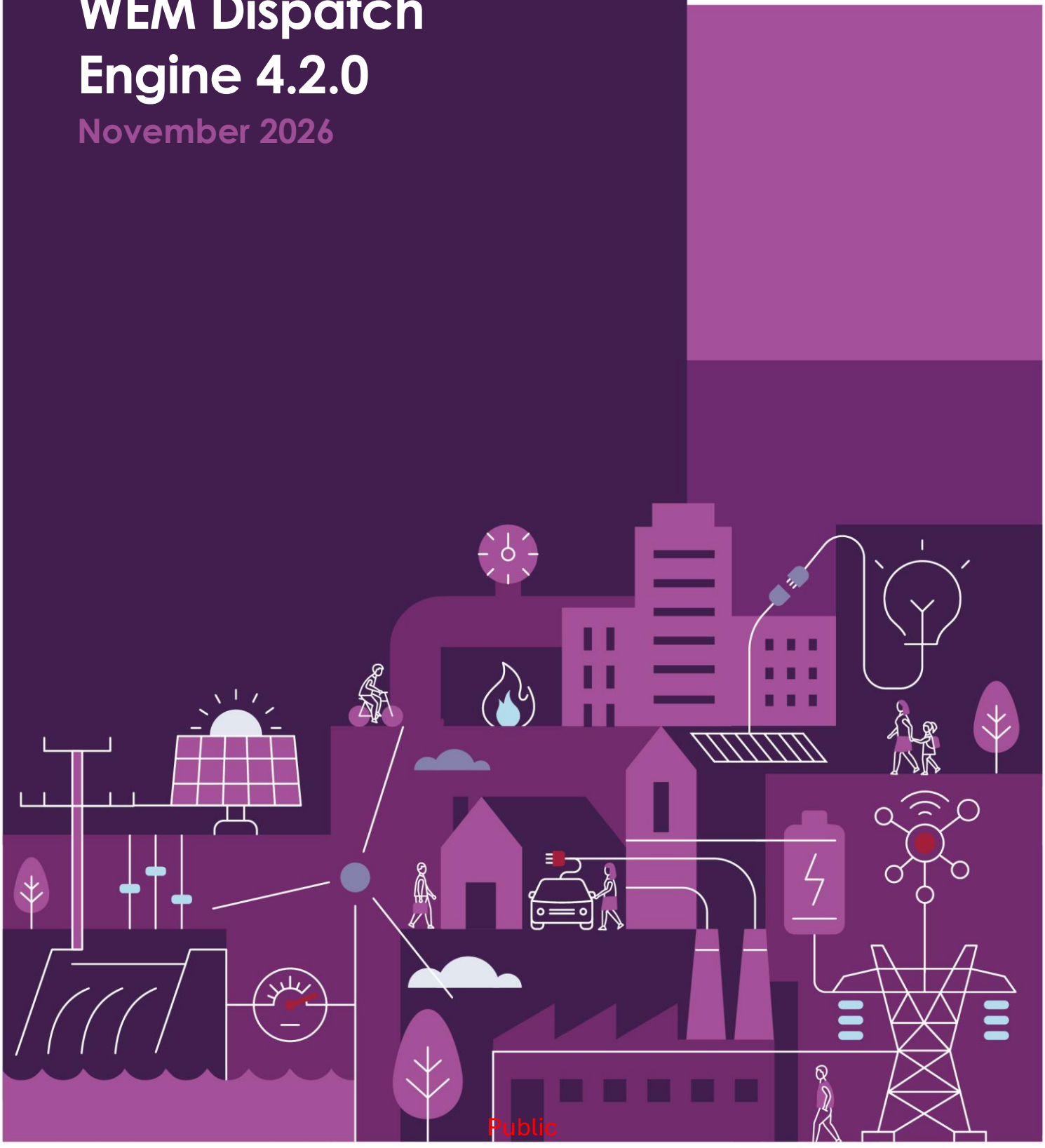
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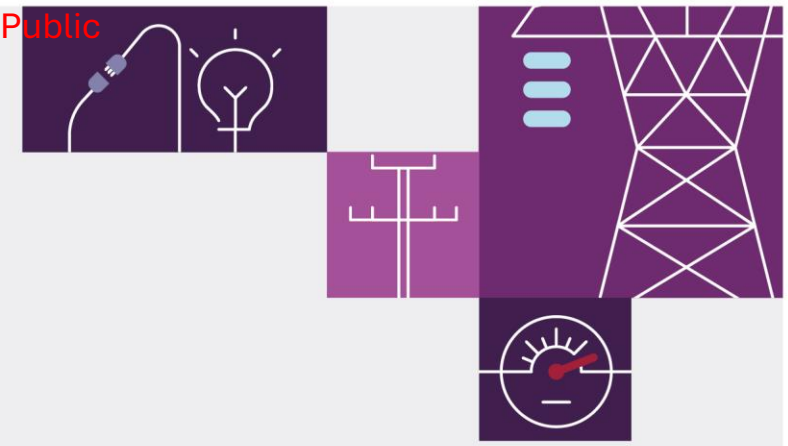
Release Notes: WEM Dispatch Engine 4.2.0

November 2026



Public

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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	16/11/2026	Initial Issue

Document approval

Name	Position	Date
Christopher Wilson	Manager, WA Real-Time Market Monitoring (Acting)	13/11/2026

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Contents

1	Introduction	4
1.1	Overview	4
1.2	Terms and abbreviations	4
2	WEM Dispatch Algorithm	5
2.1	Changes to the Dispatch Case endpoints	5
3	Updates and bug fixes	5

1 Introduction

1.1 Overview

These are the release notes for the WEM Dispatch Engine 4.2.0 release. This release includes several internal updates and bug fixes, and improvements to the WEM Dispatch Algorithm and performance of external APIs.

See **Table 2** for a summary of changes for this release.

Please contact the WA Real-Time Market Monitoring team (wa.rtm@aemo.com.au) for any queries regarding this release.

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
DSP	Demand Side Programme
ESM Rules	Electricity System and Market Rules
RTMS	Real-Time Market Submission
PDS	Public Data Site
WEMDE	WEM Dispatch Engine
WEMDE-UI	WEM Dispatch Engine User Interface

2 WEM Dispatch Algorithm

This release includes changes to the WEM Dispatch Algorithm as part of a procedure change proposal for the WEM Procedure: Dispatch Algorithm Formulation[1]. These changes are being implemented to better account for a Facility's Droop Response when operating at the edges of its Essential System Services (ESS) Trapezium.

At a high level, the change introduces Droop Response into the ESS pre-processing conditions used by the Dispatch Algorithm. This provides a more accurate representation of a Facility's ESS capability where its response may be affected by its operating point and Droop characteristics.

The changes introduce new parameters (see paragraphs 2.2.52 to 2.2.55 of the draft WEM Procedure[2]), including:

- Nominal Frequency
- System Frequency
- Droop
- Maximum Active Power

For the purposes of these calculations, Droop is assumed to be 4% for all Facilities, with System Frequency based on the SWIS Frequency measured by AEMO (assigned a tag of ***dispatchCondition.systemFrequency*** within the ***"scada"*** object of WEMDE case files) and Nominal Frequency set to 50 Hz.

As part of this procedure change proposal, this release is also implementing a change to reduce fluctuation in the RoCoF Control Service Requirement when both costs of RoCoF and Contingency Reserve Raise services are zero (see paragraph 2.4.38 of the draft WEM Procedure).

2.1 Changes to the Dispatch Case endpoints

The ***/WEM/v2/dispatchCase/dispatchData*** endpoint will be updated to include the new field ***maxSentOutCapacityOptimalConditions*** in the ***"registrationData.facilityStandingData"*** object and incremented to version 29 (v29).

3 Updates and bug fixes

The following updates and bug fixes have been introduced in this release.

[1] For further detail on the procedure change proposal, including the draft WEM Procedure: Dispatch Algorith Formulation, see https://www.aemo.com.au/consultations/current-and-closed-consultations/aepc_2026_07.

[2] See https://www.aemo.com.au/-/media/files/stakeholder_consultation/consultations/wa_wem_consultation_documents/2026/aepc_2026_07/wemp-dispatch-algorithm-formulation_v52_clean.pdf.

Table 2 Release Items

Scope Item	Status	Summary
WEMDE / WEMDE-UI	🔴	Changes related to Droop Response in ESS pre-processing and RoCoF Control Service Requirement fluctuation (see **Section 2**).)
WEMDE	🔴	Added a new field ***isWithdrawn*** into the API response of the ***/WEM/v2/DSPDispatchInstruction/DSPDispatchInstructionParticipantWise*** and ***/WEM/v2/DSPDispatchInstruction/DSPDispatchInstructions*** endpoints. The AEMO Developer Portal has also been updated for the ***DSPDispatchInstruction*** endpoint pages, to detail the query parameters, required headers and fields returned in the API responses (see https://dev.aemo.com.au/).
WEMDE / WEMDE-UI	🟡	Improvements to WEMDE robustness: • Addition of a configurable ***EnergyShortfallPercentageThreshold*** variable to trigger monitor mode when the solved energy shortfall value exceeds a set percentage of the Forecast Unscheduled Operational Demand, reducing the risk of WEMDE issuing Dispatch Instructions based on erroneous data. • A fix to prevent WEMDE from switching to monitor mode unnecessarily when stagnant Forecast Unscheduled Operational Demand data is received. • Several improvements to AEMO's automatic error correction algorithm for Forecast Unscheduled Operational Demand, to reduce the risk of using erroneous input data.
WEMDE-UI	🟡	Updates to AEMO's Public Data Site (PDS) • Update multiple pages to streamline navigation and provide clearer field descriptions for published data. • DSP Trading Day Withdrawal data will be published on "DSP Withdrawal Estimate "page under "Dispatch" section as required under 7.13.1F(c) of the ESM Rules.
WEMDE / WEMDE-UI	🟢	Several minor updates and bug fixes, error logging enhancements, and improvements to internal and external-facing API performance.

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.