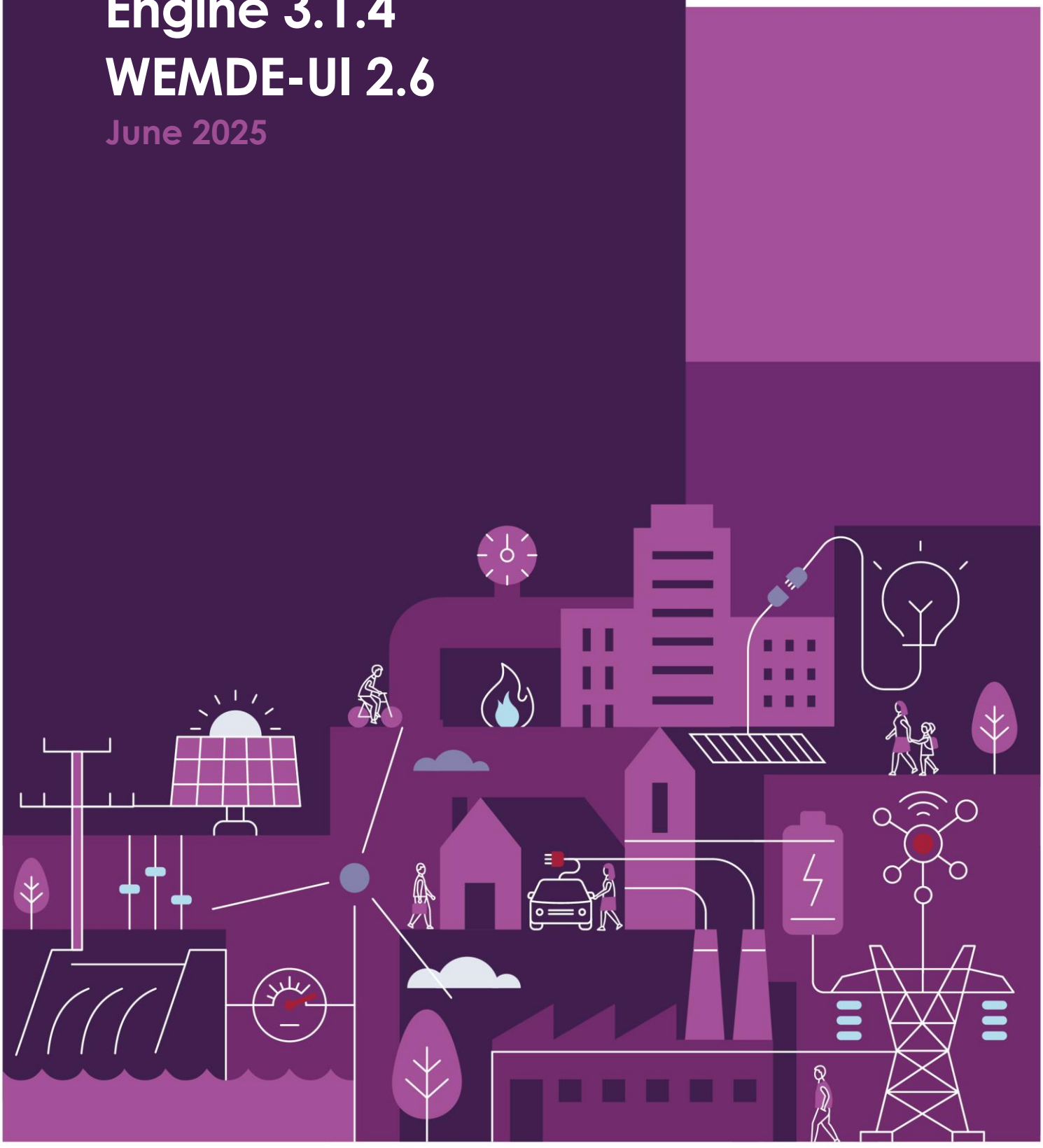
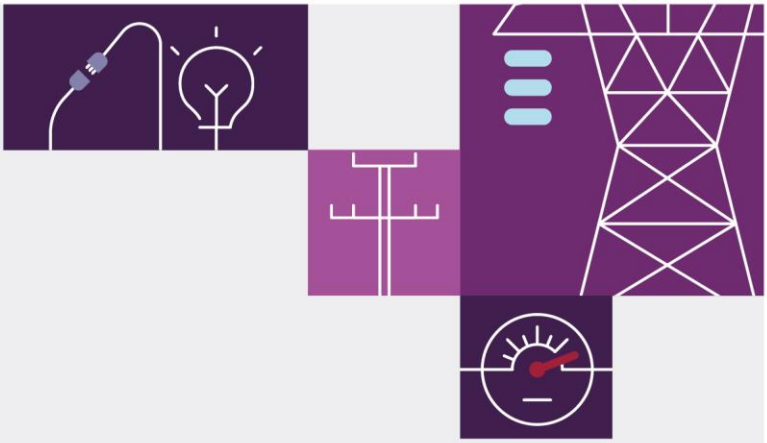
Release Notes: WEM Dispatch Engine 3.1.4 WEMDE-UI 2.6

June 2025





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	13/06/2025	Initial Release

Document approval

Name	Position	Date
Rachel Tandy	Acting Manager, WA Real-Time Market Monitoring	13/06/2025

Contents

1 Introduction

1.1 Overview

These are the release notes for the WEM Dispatch Engine 3.1.4 and WEMDE-UI 2.6 releases. These releases include updates related to system version upgrades, bug fixes, adding AEMO Control Room constraint blocking functionality, and a change in WEM Dispatch Engine solve start times.

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.

Table 1 Terms and abbreviations

Abbreviation	Expanded name
DFCM	Dynamic Frequency Control Model

2 Resolved Issues and Updates

The following issues have been resolved in this release.

Table 1 Resolved Issues

Reference	Summary	Resolution
● WAPDT-1326	A bug that would cause the WEM Dispatch Engine to fail if the distributed PV input value exceeded the distributed PV maximum value in the DFCM.	Code update to cap the size of the distributed PV input to the DFCM.
● WAPDT-3160	Bug where tranches would appear out of order in the casefile for some Facilities.	Code bug fix.

Table 2 Other updates

Reference	Summary
● WAPDT-1271 ● PWLP-707	Updates to system software versions.
● WAPDT-1714	Introduced functionality for the AEMO Control Room to block constraints from being applied in a Dispatch Interval. See section 3.
● WAPDT-2287	WEM Dispatch Engine solve to start at 30 seconds before start of interval, compared to 50 seconds previously.

Table 3 Status Legend

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

3 Constraint Blocking

This release includes additional functionality for the AEMO Control Room to “block” specific constraints from being applied during defined Dispatch Intervals. Constraint Sets that are applied by the Control Room (such as a set of Network Constraints) can contain a large number of individual Constraint Equations (“constraints”) that are invoked to match the conditions of the power system for a given period. There are circumstances where some constraints invoked within an applied Constraint Set are not actually applicable to the conditions at that time. The constraint blocking functionality allows the AEMO Control Room to single out these constraints for a specified period instead of undertaking longer procedures such as rebuilding Constraint Sets and altering invoked sets.

Blocked constraints can be identified in the case file under the “required” field of a Constraint Equation (Case file location: constraints → constraintEquations), which will be set to “false”. See below for an example:


```
"required": false,
"limitType": "Thermal",
"limitAdviceId": "Western Power Thermal Limit Advice",
"isInterventionEvent": false,
"constraintType": "Network",
"defaultRHS": 9999.0,
"violationPenalty": 30.0,
"contingency": "MU-NT 91",
"monitoredElement": "MU-NGS X1 (MU~)",
"version": 2,
"systemConfiguration": "NIL"
```


Blocked constraints will not appear in the solution file.