Annual Affected Dispatch Interval Report

2024-25 Capacity Year

Prepared in accordance with clause 7.11C.4 of the ESM Rules

1 Introduction

The Australian Energy Market Operator (AEMO) has prepared this report under clause 7.11C.4 of the Electricity System and Market Rules (ESM Rules).

Clause 7.11C.4 of the ESM Rules requires AEMO to publish a report on the effectiveness of AEMO's Affected Dispatch Interval procedures at least once each year, including:

- ESM 7.11C.5(c)(i): A review of identified Affected Dispatch Intervals for the Capacity Year and whether these determinations are correct;
- ESM 7.11C.5(c)(i), 7.11C.5(ii): a review of all Affected Dispatch Intervals that should not have been identified as Affected Dispatch Intervals and the reason(s) they were identified as such;
- ESM 7.11C.5(c)(iii): a review of the Dispatch Intervals that were not initially identified as Affected Dispatch Intervals but AEMO has subsequently found this determination to be incorrect;
- a review of the effectiveness of the Affected Dispatch Interval identification process; and
- recommendations for potential WEM Procedure and/or ESM Rules changes in the future, where required.

In this report:

- the reporting period covers the period specified on the title page;
- terms that are capitalised but not defined have the meaning given in the ESM Rules; and,
- date references are to Trading Days unless otherwise stated.

2 Summary

The Affected Dispatch Interval process is intended to allow AEMO to correct for manifestly incorrect Dispatch Inputs used in the Dispatch Algorithm. The process for identification of Affected Dispatch Intervals is outlined in WEM Procedure: Identification of Affected Dispatch Intervals[1]. The underlying principle of the process is that a previous "good" forecast (a forecast for the Dispatch Interval that AEMO reasonably considers does not contain manifestly incorrect Dispatch Inputs) would provide more representative price and schedule data for the purpose of settlement. Alternatively, AEMO may correct the manifestly incorrect Dispatch Inputs using any information available to it and re-run the Dispatch Algorithm, if this would provide more representative price and schedule data.

Dispatch Inputs are consumed by the Dispatch Algorithm to produce the Dispatch, Pre-Dispatch and Week-Ahead Market Schedules, for the required Scenarios, as per the timeframes and provisions in chapter 7 of the ESM Rules, and the WEM Procedure: Dispatch Algorithm Formulation. Dispatch Inputs include but are not limited to:

- Forecast Unscheduled Operational Demand (and higher and lower load variations of this),
- Essential System Service (ESS) requirements,
- SCADA data from AEMO's Energy Management System (EMS) or Western Power's SCADA system via Inter Control Centre Protocol (ICCP) (or one of the allowed alternative sources where this data is available),
- ESS Trapezia values, Ramp Rates and ESS Maximum Provision Percentages,
- Unconstrained Injection Forecasts (UIF) and Unconstrained Withdrawal Forecasts (UWF),
- Registration data (including effective Facility Standing Data),
- Constraint Sets, Constraint Equations and associated Constraint Violation Penalties,
- Dynamic Frequency Control Model (DFCM) and Facility Performance Factors,
- Transmission and Distribution Loss Factors,
- Market Service Price Ceilings and Floors,
- Fast Start Facility data, and
- Projected Facility Charge Levels.

Dispatch Inputs explicitly exclude Real-Time Market Submissions.

During Capacity Year 2024-25 AEMO identified 1,101 Affected Dispatch Intervals associated with 25 discrete events, representing 1.05% of total Dispatch Intervals. Approximately half, 46.8%, of all Affected Dispatch Intervals identified occurred in the April 2025 Trading Month (see **Figure 1**). The total number of Affected Dispatch Intervals decreased by 145 compared to Capacity Year 2023-24 , representing a -11.6% change, and the number of discrete events increased by 16.

On average, the Market Clearing Prices increased for all Market Services once an interval was declared as Affected and the Market Schedule was replaced, differing from Capacity Year 2023-24 in which all prices decreased on average (see **Table 1**). A contributor to this was the comparatively large price increases (and larger number of intervals) associated with Affected

[1] See https://www.aemo.com.au/energy-systems/electricity/wholesale-electricity-market-wem/procedures-policies-and-guides/procedures.

Dispatch Intervals resulting from incorrect application of intervention pricing for invoked Constraint Equations. If a market run is erroneously flagged for intervention pricing, this may result in some price suppression due to the relaxation of ramp rate constraints, meaning more energy and FCESS capacity can be scheduled by the WEM Dispatch Engine to soften any supply-demand imbalance. Once these intervals are corrected to remove intervention pricing, the binding ramp rate constraints reduce this capacity and increase the supply-demand gap, which can act to increase Market Clearing Prices. **Figure 2** shows cumulative price distributions for Affected Dispatch Intervals with a non-zero price impact.

The absolute mean difference for all Market Clearing Prices also reduced from Capacity Year 2023-24, as a result of ~84% of all Affected Dispatch Intervals in Capacity Year 2024-25 having had no price change. For these intervals, the market outcomes were based on manifestly incorrect Dispatch Inputs, and AEMO reasonably considers this caused a material difference in Market Clearing Prices. However, as AEMO was unable to determine the impact in accordance with paragraph 2.1.3 of the WEM Procedure: Identification of Affected Dispatch Intervals, these intervals were identified as Affected Dispatch Intervals for the sake market transparency, given the WEM Dispatch Engine had still used manifestly incorrect data to produce price and schedule outcomes.

Figure 1 Number of Affected Dispatch Intervals and events by Trading Month for Capacity Year 2024-25

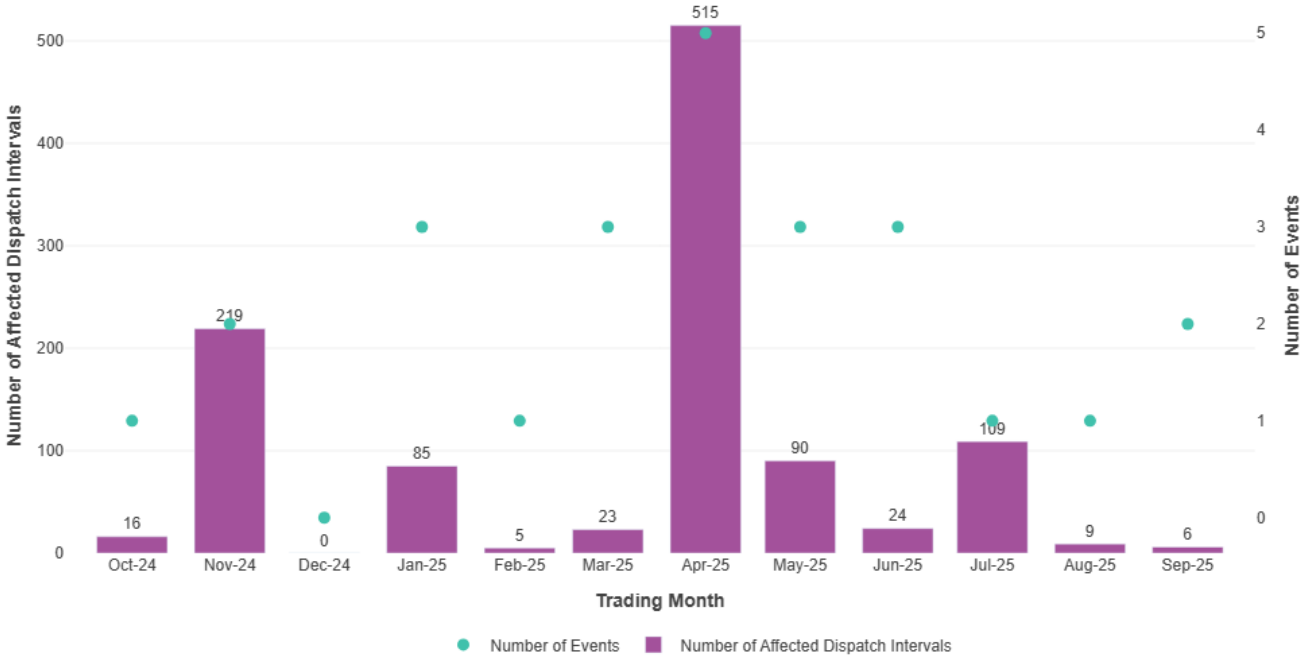
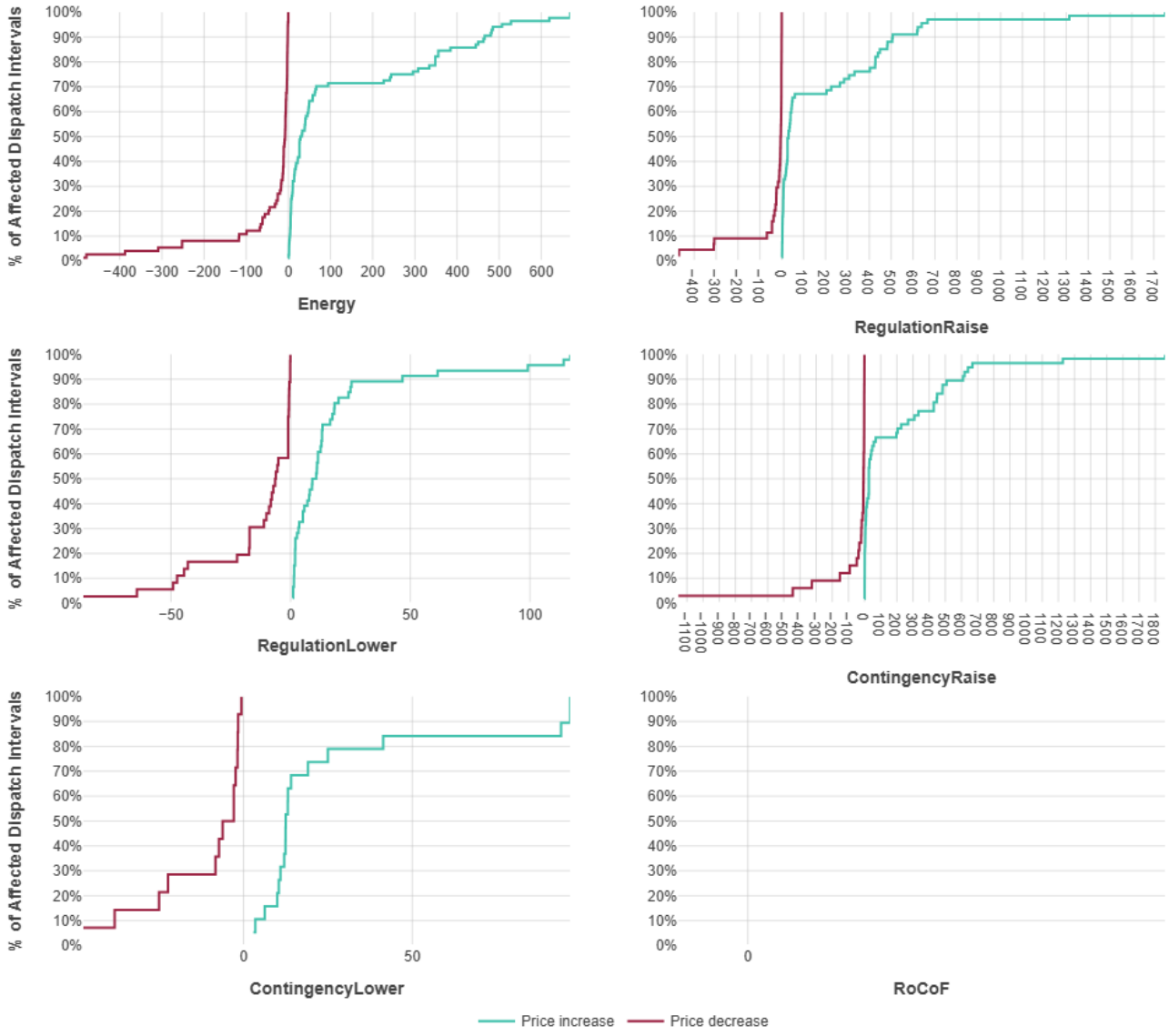


Table 1 Affected Dispatch Interval price statistics for the Capacity Year 2024-25

Market Clearing Price	Mean Difference	Mean Absolute Difference	Price Change Direction (%)		
			Increase	Decrease	No Change
Energy	$7.32/MWh	$13.43/MWh	7.63	6.72	85.65
Regulation Raise	$9.66/MW/h	$13.31/MW/h	6.09	4.0	89.92
Regulation Lower	$0.27/MW/h	$1.2/MW/h	4.18	3.27	92.55
Contingency Reserve Raise	$7.77/MW/h	$12.2/MW/h	5.18	3.0	91.83
Contingency Reserve Lower	$0.31/MW/h	$0.61/MW/h	1.73	1.27	97.0
RoCoF Control Service	$0.00/MWs/h	$0.00/MWs/h	0	0	100.0

Figure 2 Cumulative distribution of non-zero price impact for Affected Dispatch Intervals



3 Identified Affected Dispatch Intervals

This section provides details of the Dispatch Intervals AEMO determined to be Affected Dispatch Intervals in accordance with clause 7.11C.1A. Note that, at the time of publication of the relevant Affected Dispatch Interval reports (containing the complete list of Affected Dispatch Intervals and available on the WEM Website[2]), AEMO considered all Affected Dispatch Interval determinations to be correct in accordance with clause 7.11C.3(b).

[2] See https://www.aemo.com.au/energy-systems/electricity/wholesale-electricity-market-wem/data-wem/affected-dispatch-interval-report.

The identified Affected Dispatch Intervals in Capacity Year 2024-25 were related to 25 discrete events, detailed in **Table 2** (compared to 9 discrete events for Capacity Year 2023-24). Except for the 2 incorrectly identified Affected Dispatch Intervals detailed in section 5 of this report, all intervals detailed in **Table 2** are deemed to have been correctly determined (as per 7.11C.3(b)). This is because the market outcomes were based on manifestly incorrect Dispatch Inputs, directly resulting in material impacts to Market Clearing Prices.

Table 2 Affected Dispatch Intervals identified in Capacity Year 2024-25

Trading Month	Trading Day(s)	Reason for determination [7.11C.3(a)]	Count	Action [7.11C.3(c)]	Methodology for replacement(s)
October 2024	04/10/2024	**AEMO system error** A system deployment required to resolve an unrelated system issue resulted in several previously revoked constraints that met specific criteria to be incorrectly re-invoked. These constraints were not reflective of system conditions at the time.	16	Constraints database records were reviewed to identify any other constraints which would be re-invoked because of the same system change. None were identified; therefore, no further action was required.	Most recent Dispatch Schedules as per 7.11B.1B(a).
November 2024	14/11/2024	**AEMO process error** A specific load contingency definition was erroneously left in the calculation of the Contingency Reserve Lower requirement following a network augmentation. This caused the Contingency Reserve Lower requirement to be incorrectly elevated.	10	Conducted review of the process for updating load contingency definitions following network augmentations. Additionally, preplanned implementation of system changes related to the WEM Cost Allocation Review to explicitly calculate load contingencies in the Dispatch Algorithm.	No suitable replacement identified under 7.11B.1B(a), 7.11B.1B(b), or 7.11B.1B(bA), therefore replaced with the same interval as per 7.11B.1B(c).
	24/11/2025, 25/11/2025	**Third party input error** The NTMW and ANCG readings for a Facility were frozen.	209	Collaborative investigation into root cause by AEMO, Western Power and the Facility operators.	No suitable replacement identified under 7.11B.1B(a), 7.11B.1B(b), or 7.11B.1B(bA), therefore replaced with the same interval as per 7.11B.1B(c).
December 2024					
January 2025	20/01/2025	**AEMO process error** Several Constraint Sets were invoked with an incorrect constraint type and/or incorrect intervention pricing fflag.	41	AEMO Control Room processes reviewed and updated to ensure correct application of the intervention pricing flag for AEMO Intervention Event constraints.	Dispatch Algorithm used with corrected Dispatch Inputs as per 7.11B.1B(bA).
	21/01/2025	**AEMO process error** A single Constraint Set was invoked with an incorrect intervention pricing fflag.	6	AEMO Control Room processes reviewed and updated to ensure correct application of the intervention pricing flag for AEMO Intervention Event constraints.	Dispatch Algorithm used with corrected Dispatch Inputs as per 7.11B.1B(bA).
	23/01/2025	**AEMO process error** Several Constraint Sets were invoked with an incorrect intervention pricing fflag.	38	AEMO Control Room processes reviewed and updated to ensure correct application of the intervention pricing flag for AEMO Intervention Event constraints.	Dispatch Algorithm used with corrected Dispatch Inputs as per 7.11B.1B(bA).
February 2025	05/02/2025	**Third party input error** A Metrix forecasting system input, specifically a summation of two	5	Investigation conducted into the root cause of the SCADA drop-out.	3 intervals replaced with most recent Dispatch Schedules as per 7.11B.1B(a), as these were within

Trading Month	Trading Day(s)	Reason for determination [7.11C.3(a)]	Count	Action [7.11C.3(c)]	Methodology for replacement(s)
		Facilities' NTMW readings, erroneously dropped to zero. This adversely impacted the Forecast Unscheduled Operational Demand.			Gate Closure. Dispatch Algorithm used with corrected Dispatch Inputs for 2 intervals as per 7.11B.1B(bA).
March 2025	17/03/2025	**AEMO process error** A single Constraint Set was invoked with an incorrect intervention pricing flag.	2	AEMO Control Room processes reviewed and updated to ensure correct application of the intervention pricing flag for AEMO Intervention Event constraints.	Dispatch Algorithm used with corrected Dispatch Inputs as per 7.11B.1B(bA).
	22/03/2025	**AEMO process error** A single Constraint Set was invoked with an incorrect intervention pricing flag.	13	AEMO Control Room processes reviewed and updated to ensure correct application of the intervention pricing flag for AEMO Intervention Event constraints.	Dispatch Algorithm used with corrected Dispatch Inputs as per 7.11B.1B(bA).
	31/03/2025	**AEMO process error** The Metrix forecasting system failed to produce new Forecast Unscheduled Operational Demand values due to a process error when including a new Facility.	8	The Metrix forecasting system input was rectified.	Dispatch Algorithm used with corrected Dispatch Inputs as per 7.11B.1B(bA).
April 2025	01/04/2025	**AEMO process error** Two Constraint Sets were invoked with an incorrect intervention pricing flag.	7	AEMO Control Room processes reviewed and updated to ensure correction application of the intervention pricing flag for AEMO Intervention Event constraints.	Dispatch Algorithm used with corrected Dispatch Inputs as per 7.11B.1B(bA).
	02/04/2025	**Third party input error** The NTMW readings for several Facilities flatlined following a Western Power SCADA system migration.	22	Details of the incident communicated to Western Power for review and consideration for future SCADA system migration changes.	No suitable replacement identified under 7.11B.1B(a), 7.11B.1B(b), or 7.11B.1B(bA), therefore replaced with the same interval as per 7.11B.1B(c) and paragraph 2.1.3 of the WEM Procedure: Identification of Affected Dispatch Intervals.
	04/04/2025, 05/04/2025	**AEMO process error** A Facility's load input to the Metrix forecasting system was frozen following a SCADA point update. This resulted in a bias in the Forecast Unscheduled Operational Demand of up to 75 MW.	467	Updated process for SCADA point updates to ensure similar failures do not reoccur.	No suitable replacement identified under 7.11B.1B(a), 7.11B.1B(b), or 7.11B.1B(bA), therefore replaced with the same interval as per 7.11B.1B(c) and paragraph 2.1.3 of the WEM Procedure: Identification of Affected Dispatch Intervals.
	08/04/2025, 09/04/2025	**Third party input error** Erroneous DPV generation estimates were provided to the WEM Dispatch Engine.	14	Uplift of mechanisms to alarm and mitigate the impact of flatlined or suspect DPV data feeding AEMO's dispatch systems in progress and planned for 2026.	Dispatch Algorithm used with corrected Dispatch Inputs as per 7.11B.1B(bA).
	23/04/2025	**AEMO process error** A single Constraint Set was invoked with an incorrect intervention pricing flag.	5	AEMO Control Room processes reviewed and updated to ensure correct application of the intervention pricing flag for AEMO Intervention Event constraints.	Dispatch Algorithm used with corrected Dispatch Inputs as per 7.11B.1B(bA).
May 2025	08/05/2025	**Third party input error**	10	Communications fault rectified by Western Power.	No suitable replacement identified under 7.11B.1B(a), 7.11B.1B(b), or 7.11B.1B(bA),

Trading Month	Trading Day(s)	Reason for determination [7.11C.3(a)]	Count	Action [7.11C.3(c)]	Methodology for replacement(s)
		The NTMW readings for four Facilities were frozen, as the values failed to update in AEMO's Energy Management System (EMS). The root cause was physical damage to Western Power equipment.			therefore replaced with the same interval as per 7.11B.1B(c) and paragraph 2.1.3 of the WEM Procedure: Identification of Affected Dispatch Intervals.
	26/05/2025	**Third party input error** A cutover to the Western Power Inter-Control Centre Communications Protocol (ICCP) required for infrastructure improvement resulted in several SCADA issues and WEMDE operating in Monitor Mode.	16	Rollback of Western Power ICCP undertaken once issues identified.	No suitable replacement identified under 7.11B.1B(a), 7.11B.1B(b), or 7.11B.1B(bA), therefore replaced with the same interval as per 7.11B.1B(c) and paragraph 2.1.3 of the WEM Procedure: Identification of Affected Dispatch Intervals.
	28/05/2025, 29/05/2025	**AEMO process error** A process error related to the inclusion of a new Facility during a routine database load resulted in the Contingency Reserve Lower requirement being inaccurately calculated.	64	Replacement calculation implemented as an interim solution until the issue was permanently resolved via the next scheduled database load.	No suitable replacement identified under 7.11B.1B(a), 7.11B.1B(b), or 7.11B.1B(bA), therefore replaced with the same interval as per 7.11B.1B(c) and paragraph 2.1.3 of the WEM Procedure: Identification of Affected Dispatch Intervals.
June 2025	04/06/2025	**Third party input error** A cutover to the Western Power Inter-Control Centre Communications Protocol (ICCP) required for infrastructure improvement resulted in several SCADA issues and WEMDE operating in Monitor Mode.	6	Western Power resolved the immediate issues and commenced investigation into root cause.	No suitable replacement identified under 7.11B.1B(a), 7.11B.1B(b), or 7.11B.1B(bA), therefore replaced with the same interval as per 7.11B.1B(c) and paragraph 2.1.3 of the WEM Procedure: Identification of Affected Dispatch Intervals.
	17/06/2025	**Third party input error** A Western Power system change unexpectedly impacted the ICCP, causing degradation of SCADA data.	8	Western Power identified the system change that resulted in the degraded SCADA and commenced investigation into root cause.	No suitable replacement identified under 7.11B.1B(a), 7.11B.1B(b), or 7.11B.1B(bA), therefore replaced with the same interval as per 7.11B.1B(c) and paragraph 2.1.3 of the WEM Procedure: Identification of Affected Dispatch Intervals.
	25/06/2025	**AEMO system error** During an EMS upgrade, SCADA readings for a subset of points were erroneous. Several constraints were affected for the duration of the erroneous readings.	10	AEMO is implementing improvements to SCADA quality monitoring systems and the WEM Dispatch Engine's error handling for erroneous SCADA.	Dispatch Algorithm used with corrected Dispatch Inputs as per 7.11B.1B(bA).
July 2025	24/07/2025, 25/07/2025	**AEMO process error** During a Facility Forced Outage, the Facility's floored sent-out MW reading was erroneously tagged as 'Not in Service', and this tag was not removed once the Facility recommenced operations. As this is a Metrix forecasting system input, this adversely impacted the Forecast Unscheduled Operational Demand, including after the tag was removed, due to propagated residual error in the Metrix forecasting system's self-correction algorithm.	109	AEMO Control Room procedures reviewed and reinforced to strengthen tagging accuracy during outages and mitigate recurrence of similar issues.	No suitable replacement identified under 7.11B.1B(a), 7.11B.1B(b), or 7.11B.1B(bA), therefore replaced with the same interval as per 7.11B.1B(c) and paragraph 2.1.3 of the WEM Procedure: Identification of Affected Dispatch Intervals.

Trading Month	Trading Day(s)	Reason for determination [7.11C.3(a)]	Count	Action [7.11C.3(c)]	Methodology for replacement(s)
August 2025	25/08/2025	**AEMO process error** Several Constraint Sets were invoked with an incorrect intervention pricing flag and one Constraint Set was erroneously invoked.	9	AEMO Control Room processes reviewed and updated to ensure correct application of the intervention pricing flag for AEMO Intervention Event constraints.	Dispatch Algorithm used with corrected Dispatch Inputs as per 7.11B.1B(bA).
September 2025	10/09/2025	**AEMO process error** A single Constraint Set was invoked with an incorrect intervention pricing flag.	3	AEMO Control Room processes reviewed and updated to ensure correct application of the intervention pricing flag for AEMO Intervention Event constraints.	Dispatch Algorithm used with corrected Dispatch Inputs as per 7.11B.1B(bA).
	17/09/2025	**AEMO process error** A single Constraint Set was invoked with an incorrect intervention pricing flag.	3	AEMO Control Room processes reviewed and updated to ensure correct application of the intervention pricing flag for AEMO Intervention Event constraints.	Dispatch Algorithm used with corrected Dispatch Inputs as per 7.11B.1B(bA).

Table 3 details a summary of the event categories and whether the intervals in each category had a price change.

Table 3 Affected Dispatch Intervals categories

Category	Sub-category	Total Affected Dispatch Intervals
AEMO system error	Constraints unexpectedly re-invoked due to system deployment	16
	Affected SCADA during AEMO's Energy Management System (EMS) upgrade	10
AEMO process error	Forecasting system input (Facility NMWF reading) erroneously set to 'Not In Service'	109 (no price change)
	Contingency Reserve Lower requirement being incorrectly calculated following network augmentation	10 (no price change)
	Incorrect constraint type and/or intervention pricing flag used when invoking constraint	127
	Forecasting system failed to produce forecast due to process error when including new Facility	8
	Contingency Reserve Lower requirement incorrectly calculated following routine database load	64 (no price change)
	Frozen forecasting system input due to process error following SCADA point update	467 (no price change)
Third party input error	Erroneous SCADA readings or DPV estimate received by WEMDE	290 (271 had no price change)

4 Unidentified Affected Dispatch Intervals

In accordance with clause 7.11C.5(c)(iii), this section details the 648 Dispatch Intervals that AEMO has subsequently determined should have been identified by AEMO as Affected Dispatch Intervals but were not. AEMO has determined that

each interval detailed in **Table 4** should have been identified as an Affected Dispatch Interval, because the market outcomes were based on manifestly incorrect Dispatch Inputs, which:

- directly resulted in material impacts to Market Clearing Prices, or
- AEMO reasonably considers it has caused a material difference in Market Clearing Prices but is unable to determine the impact in accordance with paragraph 2.1.2 or 2.1.3 of the WEM Procedure: Identification of Affected Dispatch Intervals.

All intervals in **Table 4** were identified in excess of the timeframes contemplated under clause 7.11C.2. As a result, these were not replaced by intervals from the most recent Market Schedule that AEMO reasonably considered did not include manifestly incorrect data. Additionally, AEMO had not issued a Market Advisory in accordance with 7.13.1K to state the intervals were delayed for replacement.

Table 4 Unidentified Affected Dispatch Intervals

Trading Month	Trading Days	Dispatch Intervals	Details	Count
February 2025	06/02/2025 (1 interval)	06/02/2025 14:55	**AEMO process error** A single Constraint Set, *NetworkCommit(PRK_AG)*, was erroneously invoked then immediately revoked, however this constraint persisted in the WEM Dispatch Engine for the following 3 Dispatch Intervals.	1
	28/02/2025 (1 interval)	01/03/2025 1:20	**Third party input error** The NTMW reading for the BW2_BLUEWATERS_G1 Facility erroneously dropped by ~200 MW for a single Dispatch Interval, due to a SCADA issue.	1
March 2025	19/03/2025 (2 intervals)	19/03/2025 10:15 19/03/2025 10:20	**AEMO process error** A single Constraint Set, *NetworkCommit(PINJAR_GT3),* was invoked with the intervention pricing flag incorrectly set to False, as the constraint related to an AEMO Intervention Event.	2
April 2025	02/04/2025 (260 intervals) 03/04/2025 (288 intervals)	02/04/2025 10:20 to 04/04/2025 7:55 (inclusive)	**AEMO process error** This relates to the event listed for Trading Days 04/04/2025 and 05/04/2025 in **Table 2**, however the intervals before Trading Day 04/04/2025 were identified in excess of the timeframes contemplated under clause 7.11C.2 . A Facility's load input to the Metrix forecasting system was frozen following a SCADA point update. This resulted in a bias in the Forecast Unscheduled Operational Demand of up to 75 MW. AEMO notes that although the intervals were identified in excess of the timeframes contemplated under clause 7.11C.2, no suitable replacement could be identified under 7.11B.1B(a), 7.11B.1B(b), or 7.11B.1B(bA), and as a result there would have been no change to Market Clearing Prices had these been identified as Affected Dispatch Intervals.	548
	07/04/2025 (2 intervals)	07/04/2025 14:00 07/04/2025 14:15	**Third party input error** This relates to the event listed for Trading Days 08/04/2025 and 09/04/2025 in **Table 2**, however the intervals before Trading Day 08/04/2025 were identified in excess of the timeframes contemplated under clause 7.11C.2. Erroneous DPV generation estimates were provided to the WEM Dispatch Engine.	2
July 2025	21/07/2025 (24 intervals)	21/07/2025 8:40 to 21/07/2025 10:35 (inclusive)	**AEMO process error** This relates to the event listed for Trading Days 24/07/2025 and 25/07/2025 in **Table 2**, however the intervals before Trading Day 21/07/2025 were identified in excess of the timeframes contemplated under clause 7.11C.2. During a Facility Forced Outage, the Facility's floored sent-out MW reading was erroneously tagged as 'Not in Service'. As this is a Metrix forecasting system input, this adversely impacted the Forecast Unscheduled	24

Trading Month	Trading Days	Dispatch Intervals	Details	Count
			Operational Demand, including after the tag returned to normal, due to propagated residual error in the Metrix forecasting system's self-correction algorithm. AEMO notes that although the intervals were identified in excess of the timeframes contemplated under clause 7.11C.2, no suitable replacement could be identified under 7.11B.1B(a), 7.11B.1B(b), or 7.11B.1B(bA), and as a result there would have been no change to Market Clearing Prices had these been identified as Affected Dispatch Intervals.	
August 2025	05/08/2025 (8 intervals) 06/08/2025 (62 intervals)	5/08/2025 22:10 6/08/2025 3:25 6/08/2025 5:10 6/08/2025 5:15 6/08/2025 5:20 6/08/2025 5:25 6/08/2025 6:00 6/08/2025 6:40 6/08/2025 8:10 6/08/2025 8:15 6/08/2025 8:20 6/08/2025 8:25 6/08/2025 8:30 6/08/2025 8:35 6/08/2025 9:05 6/08/2025 9:15 6/08/2025 9:25 6/08/2025 9:55 6/08/2025 11:20 6/08/2025 11:30 6/08/2025 11:55 6/08/2025 12:00 6/08/2025 12:05 6/08/2025 12:10 6/08/2025 12:15 6/08/2025 12:20 6/08/2025 12:25 6/08/2025 12:30 6/08/2025 12:35 6/08/2025 12:40 6/08/2025 12:45 6/08/2025 12:50 6/08/2025 12:55 6/08/2025 13:00 6/08/2025 13:05 6/08/2025 13:10 6/08/2025 13:15 6/08/2025 13:20 6/08/2025 13:25 6/08/2025 13:30 6/08/2025 13:35 6/08/2025 13:40 6/08/2025 13:45	**AEMO process error** The Unconstrained Injection Forecast (UIF) reading for the INVESTEC_COLLGAR_WF1 Facility was erroneously left tagged as 'Not in Service' following the Facility's return from outage.	70

Trading Month	Trading Days	Dispatch Intervals	Details	Count
		6/08/2025 14:00 6/08/2025 14:10 6/08/2025 14:15 6/08/2025 14:20 6/08/2025 14:30 6/08/2025 14:35 6/08/2025 14:55 6/08/2025 21:30 6/08/2025 22:05 6/08/2025 22:10 6/08/2025 22:25 6/08/2025 22:30 6/08/2025 22:35 6/08/2025 22:45 6/08/2025 23:00 6/08/2025 23:05 6/08/2025 23:10 6/08/2025 23:15 6/08/2025 23:20 6/08/2025 23:25 6/08/2025 23:30 6/08/2025 23:35 7/08/2025 0:10 7/08/2025 0:15 7/08/2025 0:20 7/08/2025 0:25 7/08/2025 0:30		

5 Incorrectly Identified Affected Dispatch Intervals

In accordance with clause 7.11C.5(c)(i), this section details the Dispatch Intervals that AEMO has subsequently determined should not have been identified by AEMO has Affected Dispatch Intervals, and the reasons they were as per 7.11C.5(c)(ii).

There were 2 Dispatch Intervals (0.18% of all identified Affected Dispatch Intervals) in which none of the energy nor FCESS Market Clearing Prices exceeded the 10% price variance threshold set under the WEM Procedure: Identification of Affected Dispatch Intervals, which was effective until 22 September 2025. Following this date, new materiality thresholds were introduced (discussed in section 6 of this report), however no intervals exceeded these thresholds.

Table 5 details the incorrectly identified Affected Dispatch Intervals and the reasons they were incorrectly identified.

Table 5 Incorrectly Identified Affected Dispatch Intervals

Trading Month	Incorrectly identified Affected Dispatch Intervals	Details [7.11C.5(c)(i)]	Reasons for incorrect identification [7.11C.5(c)(ii)]
October 2024	04/10/2024 15:30 04/10/2024 15:35	**AEMO system error** A system deployment required to resolve an unrelated system issue resulted in several previously revoked constraints that met specific criteria to be incorrectly re-invoked. These constraints were not reflective of system conditions at the time.	Of the 16 Dispatch Intervals that were initially identified as Affected Dispatch Intervals (see **Table 2**) , AEMO has subsequently determined that 2 intervals are incorrectly Identified Affected Dispatch Intervals under clause 7.11C.5(c)(i), as none of the resulting Market Clearing prices varied by more than 10% from the counterfactual scenario. However, the Market Clearing Prices for the interval were still determined using manifestly incorrect invoked constraint equations as an input to the WEM Dispatch Engine.

6 Affected Dispatch Interval Determination Process Review

In accordance with clause 7.11C.1A, AEMO must use its developed WEM Procedures (clause 7.11C.1) to determine whether each Dispatch Interval is an Affected Dispatch Interval. As of 22 September 2025, under the current WEM Procedure: Identification of Affected Dispatch Intervals, AEMO will identify a Dispatch Interval as such if manifestly incorrect data is used as an input to the Dispatch Algorithm, and one or more the Market Clearing Prices varies from a replacement Market Schedule by more than the applicable Energy Price Materiality Threshold or FCESS Price Materiality Threshold.

The Energy Price Materiality Threshold is defined as 0.1% of the difference between the applicable Energy Offer Price Floor and Energy Offer Price Ceiling, and the FCESS Price Materiality Threshold is defined as 0.1% of the applicable FCESS Clearing Price Ceiling. The materiality thresholds as at the date of publication of this report are shown in **Table 6.** These materiality thresholds replaced the previous determination methodology, in which an interval was identified as an Affected Dispatch Interval if one or more of the Market Clearing prices varied by more than 10% from a counterfactual scenario in which the manifestly incorrect data was not used by the Dispatch Algorithm. This previous methodology was revised following market consultation due to inconsistency in application depending on the magnitude of the comparative price.

As the current materiality thresholds were only in effect for less than one month before the end of the period covered by this report (08:00 1 October 2025), AEMO will continue to monitor the efficacy of these thresholds and recommend and consult on changes if required, once more data is available.

Table 6 Affected Dispatch Interval materiality thresholds as at 12 December 2025

Term	Market Service	Materiality threshold
Energy Price Materiality Threshold	Energy	$1,000.00/MWh - (-$1,000.00/MWh) * 0.001 = **$2.00/MWh**
FCESS Price Materiality Threshold	Regulation Raise	$2,300/MW/h * 0.001 = **$2.30/MW/h**
	Regulation Lower	$2,300/MW/h * 0.001 = **$2.30/MW/h**
	Contingency Raise	$2,300/MW/h * 0.001 = **$2.30/MW/h**

Term	Market Service	Materiality threshold
	Contingency Lower	$2,300/MW/h * 0.001 = **$2.30/MW/h**
	RoCoF Control Service	$0.00/MWs/h * 0.001 = **$0.00/MWs/h**

If AEMO identifies an Affected Dispatch Interval, in accordance with clause 7.11C.2 by noon on the first Business Day following the end of the Trading Day which contains the Dispatch Interval, AEMO must replace the Market Clearing Prices with those from the Dispatch Interval in the replacement Market Schedule in accordance with clause 7.11B.1B. AEMO must also undertake downstream processes such as recalculating the Reference Trading Price for the relevant Trading Interval.

AEMO's review process for identifying Affected Dispatch Intervals over the previous 12 months has been partly focused on operational awareness of Dispatch Inputs and feedback provided through operational teams. In addition, as required of AEMO under paragraph 2.1.1(a) of the WEM Procedure: Identification of Affected Dispatch Intervals, AEMO has manually reviewed the Dispatch Inputs for the five Dispatch Intervals in each Trading Day that have the greatest Forecast Deviation Quantity. Forecast Deviation Quantity refers to the aggregated absolute difference between the five-minute forecast Market Clearing Prices and the published final Market Clearing Prices for a Dispatch Interval, as defined in the aforementioned WEM Procedure. This review process is carried out daily using a newly developed toolset, which enables examination of Dispatch Input differences between the Primary Dispatch Interval and the 5-minute forecast for the same Dispatch Interval, within each Case File. The toolset also allows interrogation of inputs used by the Metrix forecasting system, as Forecast Unscheduled Operational Demand is an input to the WEM Dispatch Engine. This new process has enabled proactive identification of manifestly incorrect Dispatch Input events, and AEMO is continuing to develop this toolset, to improve identification of manifestly incorrect Dispatch Inputs, and increase its understanding of the most common drivers of price volatility between forecast and Primary Dispatch Intervals.

7 Future Recommendations

AEMO is continuing to develop its toolset for proactive identification of Affected Dispatch Intervals and continues to monitor the efficacy of the current materiality thresholds. AEMO will make recommendations and consult on these thresholds if required, once more data is available, noting that the setting of these thresholds is a trade-off between accuracy and certainty of price and schedule outcomes.

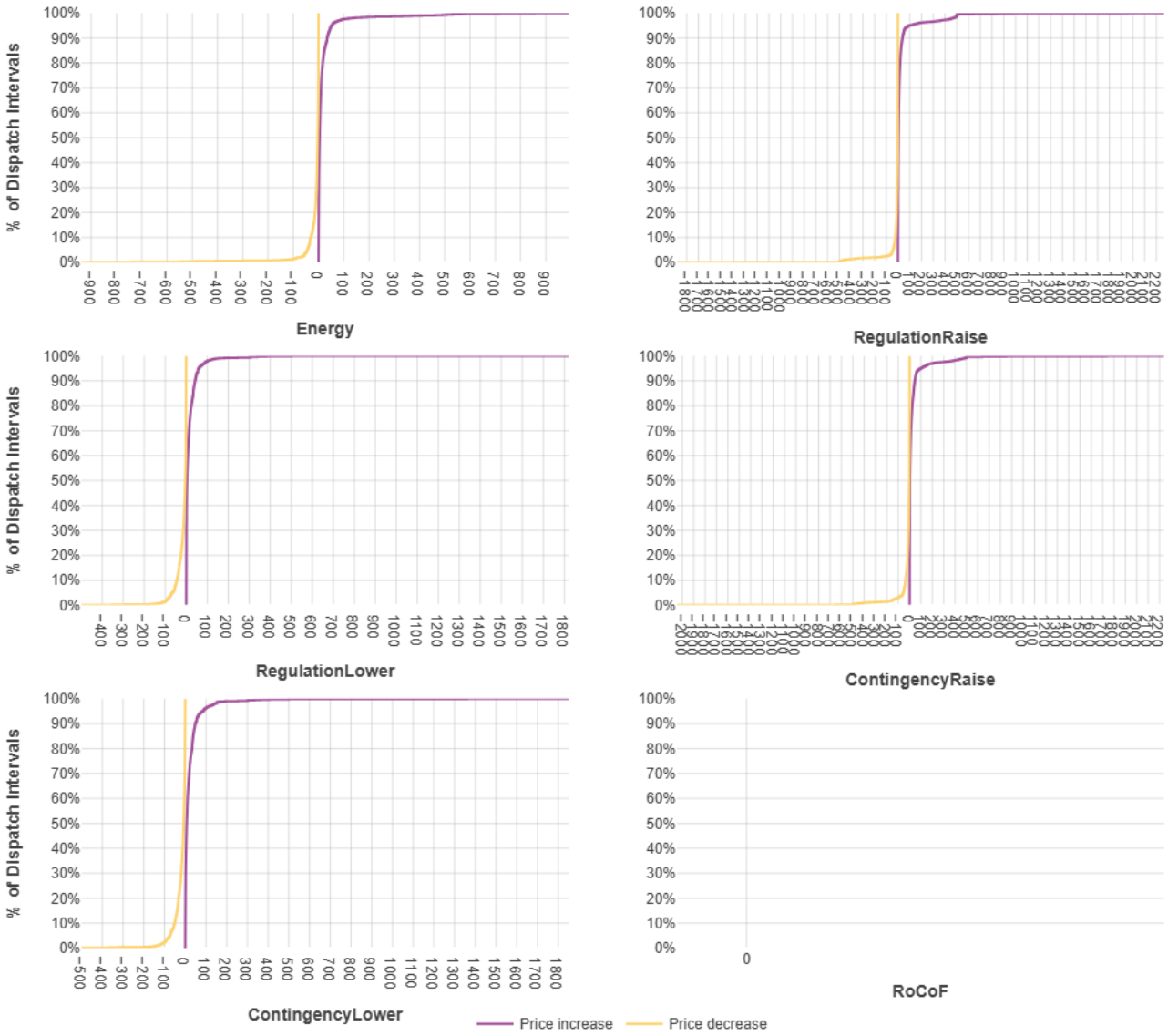
Through review of the Affected Dispatch Interval process for Capacity Year 2024-25 AEMO has also recognised three dominant themes for ongoing review, being:

- The application of intervention pricing for AEMO Intervention Events, noting incorrect application of such resulted in ~12% (127) of all Affected Dispatch Intervals for Capacity Year 2024-25. The Real-Time Market has seen an increase in AEMO Intervention Events compared to Capacity Year 2023-24, largely as a result of AEMO Intervention Events to secure additional quantities of RoCoF Control Service in response to a breach of the RoCoF secure limit.
- The treatment of Affected Dispatch Intervals for which AEMO is unable to determine the price impact but reasonably considers it has caused a material difference in Market Clearing Prices (thereby resulting in no updates to Market Clearing Prices once declared as Affected Dispatch Intervals as per paragraph 2.1.3 of the WEM Procedure: Identification of Affected Dispatch Intervals). These intervals are identified as Affected Dispatch Intervals and replaced with

themselves in accordance with clause 7.11B.1B(c), for the sake of market transparency and driving visibility of common causes of manifestly incorrect Dispatch Inputs. This is most commonly because of manifestly incorrect SCADA data being fed into the Metrix forecasting system, resulting in manifestly incorrect Forecast Unscheduled Operational Demand being provided to the WEM Dispatch Engine. Such scenarios comprised ~50% of total Affected Dispatch Intervals, predominantly driven by an event in April 2025 in which a Facility's load input to the Metrix forecasting system was frozen following a SCADA point update. This resulted in a bias in the Forecast Unscheduled Operational Demand of up to 75 MW, which persisted over multiple days. As AEMO is unable to produce counterfactual forecasts with incorrect input data corrected, this resulted in no price change once these were declared as Affected Dispatch Intervals. While improvement to the identification of erroneous SCADA data has been made through the addition of the daily manual review process, AEMO is investigating feasibility of additional real-time alarming for SCADA data consumed by the Metrix forecasting system and the WEM Dispatch Engine, for 2026.

- The necessity to increase understanding of the most common drivers of price volatility between the 5-minute forecast and the Primary Dispatch Interval, noting 57% of all Dispatch Intervals had a price change across one or multiple Market Services, and 43% had no price change at all. AEMO is continuing to investigate such drivers, and may make recommendations to address these, through market consultation. An example driver is a significant degree of market sensitivity in some intervals, meaning small changes in Forecast Unscheduled Operational Demand or intermittent generation Unconstrained Injection Forecast can result in large price changes as Scheduled Facility output is increased to fill this gap. A possible remedy for such instances would be the re-introduction of a high and low forecast in the Dispatch Schedule horizon, to provide better market signalling for price volatility events. **Figure 3** shows cumulative price distributions for all Primary Dispatch Intervals that had a non-zero price change from the 5-minute forecast (not accounting for Affected Dispatch Intervals or intervals in which a 5-minute forecast was not published due to the WEM Dispatch engine failing to run).

Figure 3 Cumulative distribution of non-zero price impact for all Dispatch Intervals



8 Conclusions

AEMO has administered the Affected Dispatch Intervals process in the second year of operation of the Real-Time Market resulting in the identification of 25 events and 1,101 Affected Dispatch Intervals in a manner largely dependent on operational awareness, however with the addition of a proactive manual review process under paragraph 2.1.1(a) of the WEM Procedure: Identification of Affected Dispatch Intervals. This process has encouraged proactive engagement across operational teams and resolved several system and process issues that may otherwise have gone unresolved.

However, it has been identified that there are improvements that can be made to the process, which AEMO proposes to address through ongoing review and make recommendations for change through market consultation where appropriate, in 2026:

- review of the application of intervention pricing for AEMO Intervention Events,
- review the treatment of and identification of causes of Affected Dispatch Intervals for which AEMO is unable to determine the price impact but reasonably considers it has caused a material difference in Market Clearing Prices (thereby resulting in no updates to Market Clearing Prices once declared as Affected Dispatch Intervals as per paragraph 2.1.3 of the WEM Procedure: Identification of Affected Dispatch Intervals), and
- increase understanding of the most common drivers of price volatility between the 5-minute forecast and the Primary Dispatch Interval, including through continual development of AEMO's toolset.

As required, AEMO will initiate the WEM Procedure update process as soon as reasonably practicable to allow formal consultation to occur for the above items.