



WEM Procedure: Mid Peak Electric Storage Resource Obligation Intervals

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Version Release History

Version	Effective Date	Summary of Changes
1.0	1 July 2021	New WEM Procedure
2.0	11 July 2023	Updated to reflect changes to clause 4.11.3A of the WEM Rules on 17 April 2023
2.1	XX XX 2024	Updated to reflect changes to clause 4.11.3A and Chapter 11 (Glossary) of the WEM Rules on 13 December 2023

IMPORTANT NOTICE – EXPLANATORY NOTES

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1. Introduction

1.1. Purpose and scope

- 1.1.1. This WEM Procedure: Mid Peak Electric Storage Resource Obligation Intervals (Procedure) is made in accordance with AEMO’s functions under clause 2.1A.2(h) of the Wholesale Electricity Market Rules (WEM Rules).
- 1.1.2. The *Electricity Industry Act 2004* (WA), the WEM Regulations and the WEM Rules prevail over this Procedure to the extent of any inconsistency.
- 1.1.3. In this Procedure, where obligations are conferred on a Rule Participant, that Rule Participant must comply with the relevant obligations in accordance with clause 2.9.7A, 2.9.7D or 2.9.8 of the WEM Rules, as applicable.
- 1.1.4. The purpose of this Procedure is to document:
 - (a) the processes to be followed by AEMO for determining changes to the Trading Intervals that will be classified as Mid Peak Electric Storage Resource Obligation Intervals under clause 4.11.3A(a) and 4.11.3A(b) **[Clause 4.11.3A(c)(i)]**;
 - (b) the processes to be followed by AEMO for publishing the Trading Intervals classified as Mid Peak Electric Storage Resource Obligation Intervals in accordance with clauses 4.11.3A(a) and 4.11.3A(b) on the WEM Website **[Clause 4.11.3A(c)(ii)]**; and
 - (c) the circumstances, if any, that allow AEMO to determine, in accordance with clause 6.3.1 and without consultation with Market Participants, that the Trading Interval classified as Mid Peak Electric Storage Resource Obligation Interval for a specific Trading Day is not the Mid Peak Electric Storage Resource Obligation Interval published by AEMO under clause 4.11.3A(a) or 4.11.3A(b) **[Clause 4.11.3A(c)(ii)]**.
- 1.1.5. Appendix A of this Procedure outlines the head of power clauses that this Procedure is made under, as well as other obligations in the WEM Rules covered by this Procedure.

1.2. Definitions

- 1.2.1. Terms defined in the *Electricity Industry Act 2004* (WA), the WEM Regulations and the WEM Rules have the same meanings in this Procedure unless the context requires otherwise.
- 1.2.2. The following definitions apply in this Procedure unless the context requires otherwise.

Table 1 Definitions

Term	Definition
Peak Demand Period	<p>A set of contiguous Trading Intervals on a Trading Day when peak demand is forecast to occur using the peak demand forecasts developed as part of the Long Term PASA, with the number of Trading Intervals equal to the ESR Duration Requirement as follows:</p> <ul style="list-style-type: none"> a) for the purposes of clause 4.11.3A(a), the ESR Duration Requirement for the previous Reserve Capacity Cycle; and b) for the purposes of clause 4.11.3A(b), the ESR Duration Requirement for the relevant Reserve Capacity Cycle.

1.3. Interpretation

1.3.1. The following principles of interpretation apply in this Procedure unless the context requires otherwise.

- (a) Clauses 1.3 to 1.5 of the WEM Rules apply in this Procedure.
- (b) References to time are references to Australian Western Standard Time.
- (c) Terms that are capitalised, but not defined in this Procedure, have the meaning given in the WEM Rules.
- (d) A reference to the WEM Rules or WEM Procedures includes any associated forms required or contemplated by the WEM Rules or WEM Procedures.
- (e) Words expressed in the singular include the plural and vice versa.
- (f) A reference to a paragraph refers to a paragraph of this Procedure.
- (g) A reference to an appendix refers to an appendix of this Procedure.
- (h) A reference to a clause refers to a clause or section of the WEM Rules.
- (i) References to WEM Rules in this Procedure in bold and square brackets **[Clause XXX]** are included for convenience only, and do not form part of this Procedure.
- (j) Text located in boxes and headed as **E[X]** in this Procedure is included by way of explanation only and does not form part of this Procedure. The Procedure prevails to the extent of any inconsistency with the explanatory notes contained within it.
- (k) The body of this Procedure prevails to the extent of any inconsistency with the figures, diagrams, appendices, schedules, annexures or attachments contained within this document.

1.4. Related documents

1.4.1. There are no documents directly associated with this Procedure.

2. Determining changes to the Mid Peak Electric Storage Resource Obligation Intervals

- 2.1.1. For the purposes of 4.11.3A(b), where AEMO has not previously determined the Mid Peak Electric Storage Resource Obligation Intervals but has determined the Peak Electric Storage Resource Obligation Duration for the relevant Capacity Year:
- (a) the Mid Peak Electric Storage Resource Obligation Interval for each Trading Day is determined to be the Trading Interval identified in the definition of Peak Electric Storage Resource Obligation Duration in Chapter 11 of the WEM Rules; and
 - (b) for the purposes of paragraph 2.1.1(a), Mid Peak Electric Storage Resource Obligation Intervals will be determined using the Peak Electric Storage Resource Obligation Duration published in or with the previous Statement of Opportunities Report for the relevant Reserve Capacity Cycle.
- 2.1.2. Each year, when preparing the Statement of Opportunities Report, AEMO will review the Mid Peak Electric Storage Resource Obligation Intervals that were last published under clause 4.11.3A(a) and clause 4.11.3A(b) to determine whether these Mid Peak Electric Storage Resource Obligation Intervals are still appropriate for the relevant Capacity Year or are required to be revised.
- 2.1.3. As part of its review in paragraph 2.1.2, AEMO will determine one or more Peak Demand Periods for the relevant Capacity Year.
- 2.1.4. A Peak Demand Period determined in paragraph 2.1.3 may be applied to a single Trading Day or to each Trading Day over another period determined by AEMO.
- 2.1.5. The indicative Mid Peak Storage Resource Obligation Interval will be determined as the mid-point of the Peak Demand Period for every Trading Day. If the number of Trading Intervals in a Peak Demand Period is an even number, then the indicative Mid Peak Electric Storage Resource Obligation Interval is the last Trading Interval in the first half of the Peak Demand Period.
- 2.1.6. AEMO may determine to revise the Mid Point Electric Storage Resource Obligation Intervals determined under clause 4.11.3A and last published in the Statement of Opportunities Report to another Trading Interval, having taken in to account the following considerations:
- (a) AEMO's operational experience, including considerations of Power System Security and Power System Reliability as an indication of whether:
 - (i) the Trading Intervals classified as the Mid Peak Electric Storage Resource Obligation Interval in accordance with clause 4.11.3A(a) or clause 4.11.3A(b) for the Trading Days in the relevant Capacity Year remain appropriate; or
 - (ii) the indicative Mid Peak Electric Storage Resource Obligation Intervals determined in paragraph 2.1.5 are appropriate; or
 - (iii) alternative Mid Peak Electric Storage Resource Obligation Intervals to the indicative Mid Peak Electric Storage Resource Obligation Intervals determined in paragraph 2.1.5 are appropriate; and

- (b) any other matters AEMO considers relevant in making the determination.
- 2.1.7. AEMO may, following its determination to change the Mid Peak Electric Storage Resource Obligation Intervals in accordance with paragraph 2.1.6, revise the Mid Peak Electric Storage Resource Obligation Intervals to the indicative Mid Peak Electric Storage Resource Obligation Intervals determined in paragraph 2.1.5 or to alternative Mid Peak Electric Storage Resource Obligation Intervals as determined appropriate by AEMO.
- 2.1.8. For the purposes of clause 6.3.1(a) or 6.3.1(b), AEMO may determine to amend the Mid Peak Electric Storage Resource Obligation Interval for a specific Trading Day determined under clause 4.11.3A, where there are circumstances that have arisen or are likely to arise:
 - (a) based on AEMO's operational experience; or
 - (b) as part of AEMO undertaking its Short Term PASA or Medium Term PASA obligations;and AEMO reasonably considers that, in order to mitigate or minimise risk to Power System Security or Power System Reliability, the Mid Peak Electric Storage Resource Obligation Interval for the Trading Day should be amended.
- 2.1.9. AEMO may, following its determination to amend the Mid Peak Electric Storage Resource Obligation Intervals in accordance with paragraph 2.1.8, amend the Mid Peak Electric Storage Resource Obligation Interval to apply on the relevant Trading Day based on AEMO's consideration of the circumstances identified in paragraph 2.1.8.

E[A] Note on the use of Electric Storage Resource Obligation Intervals in clause 6.3.1 of the WEM Rules

For the purposes of clause 6.3.1, the Trading Intervals that AEMO will determine and record for each Scheduling Day are the Mid Peak Electric Storage Resource Obligation Intervals determined under clause 4.11.3A or paragraph 2.1.9.

3. Publishing the Mid Peak Electric Storage Resource Obligation Intervals

- 3.1.1. AEMO will publish the Trading Interval that is classified as the Mid Peak Electric Storage Resource Obligation Interval for each Trading Day in the relevant Capacity Year on the WEM Website by the date and time specified in clause 4.11.3A(a) and clause 4.11.3A(b).
- 3.1.2. AEMO may publish the following information in the Statement of Opportunities Report or in a separate document published with the Statement of Opportunities Report:
- (a) the outcome of AEMO's review under paragraph 2.1.2;
 - (b) any redetermined Mid Peak Electric Storage Resource Obligation Intervals, as identified in paragraph 2.1.7 for the purposes of clause 4.11.3A(b);
 - (c) the Peak Demand Periods used to determine the Mid Peak Electric Storage Resource Obligation Intervals, as identified in paragraph 2.1.3;
 - (d) any supporting analysis that AEMO conducted in determining the Peak Demand Periods in paragraph 2.1.3;
 - (e) any supporting analysis that AEMO conducted as part of its considerations in paragraph 2.1.6 to determine whether the Mid Peak Electric Storage Resource Obligation Intervals remain appropriate, and if not, to change the Mid Peak Electric Storage Resource Obligation Intervals; and
 - (f) details of any other information used to determine the Mid Peak Electric Storage Resource Obligation Intervals and the Peak Demand Periods.
- 3.1.3. AEMO will record the information required by clause 6.3.1 by 6:50 AM on each Scheduling Day and any alternative information determined under paragraph 2.1.9 and will publish the information on the WEM Website.

Appendix A. Relevant clauses of the WEM Rules

Table 2 details:

- (a) the head of power clauses in the WEM Rules under which the Procedure has been developed; and
- (b) each clause in the WEM Rules requiring an obligation, process or requirement be documented in a WEM Procedure, where the obligation, process or requirement has been documented in this Procedure.

Table 2 Relevant clauses of the WEM Rules

Clause
4.11.3A(a)
4.11.3A(b)
4.11.3A(c)
6.3.1