

## Meeting Outcomes – AEMO Workshop on PASA and Outage Planning Methodology

**MEETING:** AEMO WORKSHOP ON OUTAGE PLANNING METHODOLOGY

**DATE:** FRIDAY, 2 NOVEMBER 2018

**TIME:** 9.00AM – 10.30AM (AWST)

**LOCATION:** AEMO PERTH NINGALOO ROOM,  
PERTH KARINJINI ROOM, PERTH NAMBUNG ROOM,  
MELBOURNE ORCHID ROOM

### ATTENDEES:

NAME	COMPANY
Matthew Fairclough	AEMO
David Weinholz	AEMO
Nicky Hong	AEMO
Michael Dalton	AEMO
Vinay Chandrasekaran	AEMO
Teresa Smit	AEMO
Paul Arias	Bluewaters Power
Shannon Hewitt	CleanTech Energy Pty Ltd
Steve Gould	Community Electricity
Elizabeth Walters	ERA
Julian Fairhall	ERA
Wendy Ng	ERM Power
Elizabeth Aitken	Perth Energy
Patrick Peake	Perth Energy
Jenny Laidlaw	Rule Change Panel
Oscar Carlberg	Synergy
Peter Martino	Western Power
Stephen Stannard	Western Power

### 1. WELCOME

Attendees agreed the overall objective of the workshop was to ensure the PASA methodology reflected the operational reality of outage planning.

## 2. PASA METHODOLOGY

AEMO proposed updating the methodology for calculation of the Reserve Margin in the PASA forecasts to include an allowance for the availability of Non-Scheduled Generation, varied seasonally by fuel type, and the availability of Demand Side Programmes.

- Question – What are the timeframes for PASA forecasts?

Answer – Timeframes for the PASA forecasts are stated in clauses 3.16.2 and 3.17.3 of the Wholesale Electricity Market (WEM) Rules. For Short Term PASA, the 6 hour period from 2pm to 8pm covers the system peak.

- Question – Are all outages in the SWIS included in the PASA forecasts?

- Answer – Outages included in the PASA forecasts are:

- Outages of Facilities or items of Network equipment on the published<sup>1</sup> list of all equipment on the South West interconnected system (SWIS) that is required to be subject to Outage scheduling in accordance with clause 3.18.2(a) of the WEM Rules; and
- Outages of Facilities that are less than 10 MW that are not on the Equipment List, where the Market Participants have informed AEMO of these Outages.

- Question – Does AEMO include solar PV growth in the PASA forecasts?

Answer – Not directly, although the PASA forecasts account for changes in the underlying load.

- Question – Does AEMO consider the peak case or expected case for the load forecast?

Answer – The peak case is included in the PASA forecasts.

- Question – Which forecast does AEMO use in assessing requests for Opportunistic Maintenance?

Answer – AEMO uses a combination of low, medium or high forecasts. In general, AEMO will use the mean though this depends on current and forecast power system conditions that AEMO is aware of at the time of assessment.

- Question – Can AEMO publish the PASA forecast with the Metrix mean forecast so that Opportunistic Maintenance opportunities can be assessed?

Answer – AEMO will investigate whether it can publish this report.

- Question – Can AEMO publish the PASA forecast with a planning horizon of one year?

Answer – AEMO will investigate whether it can publish this report.

- Question – In the Reserve Margin calculation, does AEMO include capacity that has not been assigned Capacity Credits?

Answer – AEMO will clarify how Scheduled Generation that is not assigned Capacity Credits is treated in the Reserve Margin. AEMO's intention is that the Reserve Margin

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<sup>1</sup> Accessed here: <https://www.aemo.com.au/-/media/Files/Electricity/WEM/Data/System-Management-Reports/Equipment-List.pdf>

includes only capacity from Scheduled Generators that has been assigned Capacity Credits.

- Question – How does AEMO consider Consequential Outages in the Reserve Margin calculation?

Answer – The Reserve Margin calculation accounts for generation capacity that is affected by Consequential Outages of which AEMO is aware in accordance with clauses 3.21.2 and 3.21.3 of the WEM Rules. AEMO will clarify how outages of which AEMO is aware, but that have not been lodged by Participants, are treated in the Reserve Margin.

- Question – Does AEMO consider Commissioning Tests in the calculation of the Reserve Margin?

Answer – AEMO does not consider Commissioning Testing in the calculation.

- Question – Can AEMO consider including an allowance for Intermittent Loads in the Reserve Margin calculation?

Answer – Intermittent Loads are already included in the Reserve Margin as part of the load forecast.

- Question – Can AEMO consider the availability of Demand Side Programmes outside of business hours in the Reserve Margin calculation for Short Term PASA?

Answer – AEMO will investigate how this can be indicated.

- Question – How will AEMO account for new Scheduled Generators in the calculation of the Reserve Margin?

Answer – AEMO will clarify how new Facilities are treated in the Reserve Margin. In general, generation capacity provided by new Scheduled Generators will be included in this calculation commensurate with the quantity of Capacity Credits that they have been assigned for the relevant Capacity Year after a period of commissioning.

- Question – Does the current model used in the preparation of the PASA reports make an allowance for the current state of the more recent load and generation profiles prevalent in the SWIS?

Answer – AEMO will consider weighting recent years more than those years further in the past, in the PASA forecast.

- Question – Should AEMO's methodologies be included in the Procedures?

Answer – AEMO will consider the degree to which AEMO's methodologies for PASA should be included in the Procedures. As a general principle, it is important to note that AEMO must determine how to fulfil the obligations to maintain Power System Security and approve outages. As such, while the WEM Rules and the Procedures may indicate factors for AEMO to consider and the process for doing so, AEMO must rely on its own judgement to fulfil those obligations.

### 3. GENERAL

- Stakeholders expressed a concern that outage planning will become increasingly difficult for Participants as the amount of Scheduled Generation reduces as a proportion of total generation and that WEM Reform does not appear to be resolving this issue.
- Stakeholders expressed a concern that the impacts on approval of outages are not being considered by the Reserve Capacity accreditation process and that WEM Reform does not appear to be resolving this issue.
- Stakeholders expressed that the limitation on the number of Planned Outage Hours will increasingly require outages required by impacts of third parties to be taken as Consequential, and that this places greater pressure on the coordination process between Market Participants and the Network Operator.
- Participants requested that the PASA report include sent out as well as generated quantities of the Reserve Margin.
- Participants requested that the Short Term PASA horizon be expanded from three weeks to a year.
- Participants expressed a concern regarding the impacts of the Generator Interim Access scheme on outage approval.

### 4. NEXT MEETING

AEMO will arrange a meeting on the WEM AEMO Procedure Change Working Group to discuss the PASA Power System Operation Procedures based on the content of the workshop.

Stakeholders were requested to forward any questions arising from the workshop to AEMO.