



**Energy Transformation
Implementation Unit**

Transformation Design and Operation Working Group Meeting 31

System Restart Service

**Transitional Arrangements for
Registration**

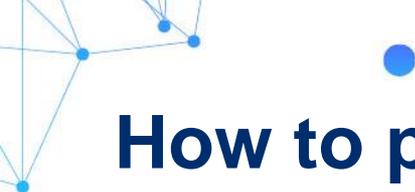
18 November 2020





Ground rules and virtual meeting protocols

- Please place your microphone on mute, unless you are asking a question or making a comment.
- Please keep questions relevant to the agenda item being discussed.
- If there is not a break in discussion and you would like to say something, you can 'raise your hand' by typing 'question' or 'comment' in the meeting chat. Questions and comments can also be emailed to TDOWG@energy.wa.gov.au after the meeting.
- The meeting will be recorded. However no minutes will be issued.
- Please state your name and organisation when you ask a question.
- If you are having connection/bandwidth issues, you may want to disable the incoming and/or outgoing video.



How to provide feedback

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- By email, written submission or face-to-face.
 - Preference is to receive feedback on rule sections rather than the entire package.
 - Where feedback refers to specific clauses, please provide in table format.
 - Please provide alternative drafting suggestions where possible.
 - Consultation on the System Restart and Transitional Arrangements Registration Amending Rules closes **Monday 23 November 2020**.
 - Consultation on Tranche 3 closes **Monday 23 November 2020**.



Agenda

- **System Restart Service** (section 3.7)
 - **Participation and Registration**
 - Specific Transitional Arrangements – Registration for the 2021 and the 2022 Reserve Capacity Cycle (section 1.45)
 - Specific Transitional Arrangements – Registration from New WEM Commencement Day (section 1.46)
 - Rule Participants (section 2.28)
 - Facility Registration Classes (section 2.29)
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System Restart Service





System Restart Standard and Plan

- AEMO must determine the System Restart Standard and the System Restart Plan
- AEMO must consult in good faith with Network Operators that may be impacted by the System Restart Plan, and must take into account NO's input in relation to viable restart paths and restoration of priority loads.
- NO is obliged to inform AEMO where conditions on the network may change in a way that may affect the System Restart Plan
- Standard and Plan must be reviewed at least once every three years, and more frequently if needed.
- Standard will be published but not the Plan



Local Black Start Procedures

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- AEMO must publish guidelines for LBSP
 - Unless exempted by AEMO, all Market Participants with registered energy producing systems must have LBSPs and must provide these to AEMO.
 - AEMO may share the LBSPs with the Network Operator if they will be useful in the effective operation of the System Restart Plan.
 - Following a review of the Standard and/or Plan, AEMO may update the LBSP guidelines and require Market Participants to update their LBSP, however AEMO must provide reasons for the amendments, and specify a timeframe giving regard to the extent and complexity of the amendments.



Obligations to restart the SWIS



- Clauses clarifying obligations of AEMO, Network Operators and Market Participants to restart the SWIS in the event of a system shutdown or major supply disruption
- AEMO must use reasonable endeavours to restart and restore the SWIS, and must have reasonable regard to the restoration of sensitive loads
- Network Operators must use reasonable endeavours to ensure their Network is capable of being restarted and restored.
- Network Operators and Market Participants must do all things necessary to help restart the system in the event of a system shutdown or major supply disruption, including complying with directions from AEMO.



Procurement of System Restart Services

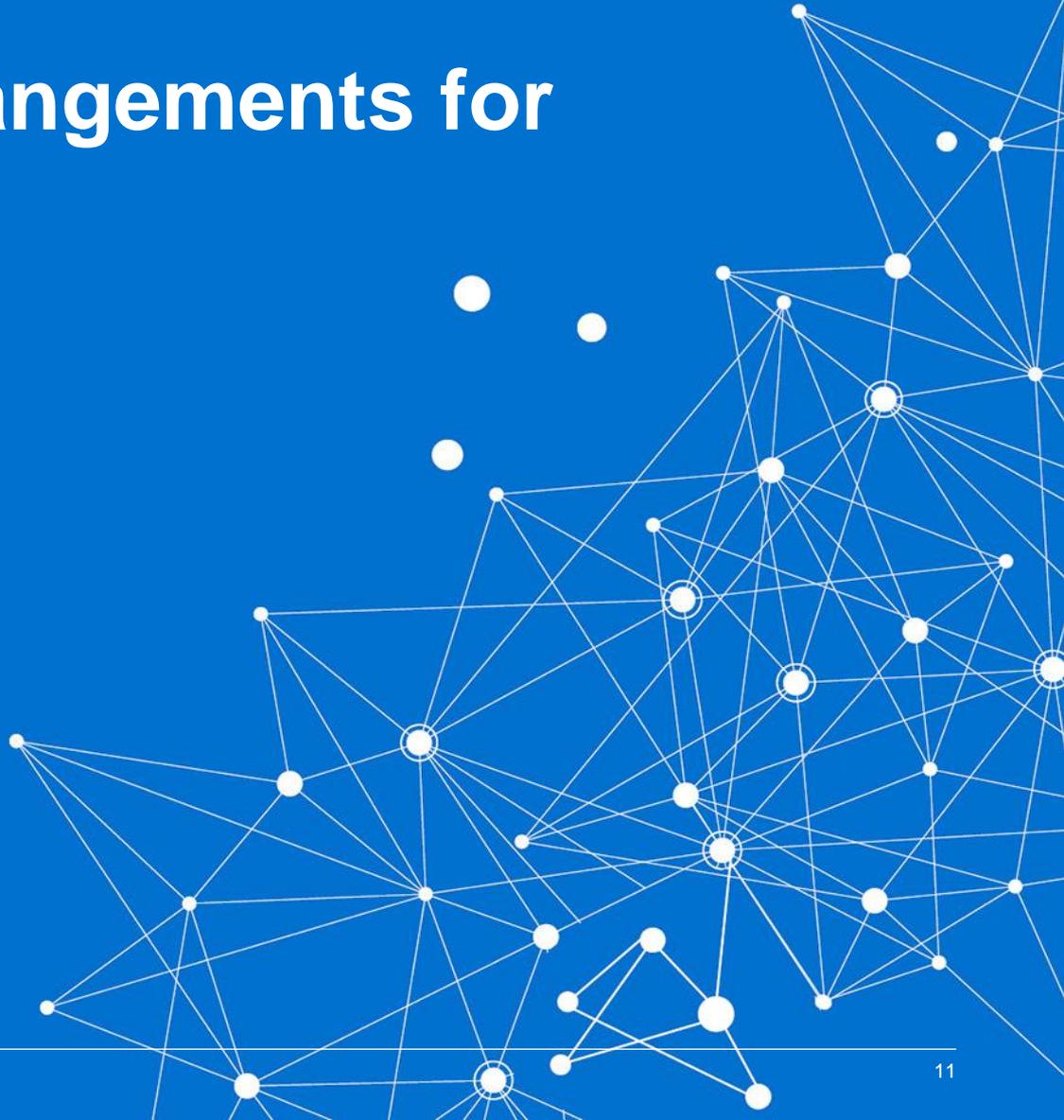
- SRS will continue to be provided through SRS contracts between AEMO and Market Participants that have capable energy producing systems
- AEMO will publish a standard form contract for SRS submissions to be provided.
- Standard form contract to include:
 - a price to cover the cost of capital works
 - a service availability price, including ongoing maintenance works
 - a service testing price
 - a service usage price
 - proposed contract term
 - availability requirements
- AEMO's acceptance of a SRS submission forms a binding SRS contract with the relevant SRS provider



Cost- recovery

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- Costs incurred by a prospective SRS Provider to determine the adequacy and capability of its equipment, or any negotiations with NO in relation to network equipment augmentation that may assist in preparing a valid submission, is to be borne by the prospective SRS Provider.
 - NO's costs in participating in the development of the Standard and Plan, facilitating testing of SRS Provider's energy producing system etc. will be recovered from network tariffs, if not covered under SRS contracts.
 - AEMO's costs are recovered through market fees.
 - Costs of the SRS contracts are recovered from Market Participants with consumption share (part of market settlement)

Transitional Arrangements for Registration



Specific Transitional Provisions – Registration for the 2021 and the 2022 Reserve Capacity Cycle

(Section 1.45)

Intent of Section 1.45

- **Automatically transition** (via deeming provisions) that **all existing market participants** (e.g. Market Generators and Market Customers in current WEM Rules) participating in the 2021 and 2022 Reserve Capacity Cycles to the **Market Participant class**.
- **Automatically transition** (via deeming provisions) **all existing market participants' Registered Facilities** to **new equivalent Facility classes unless certain conditions apply**. Where those conditions apply, the transitional WEM Procedure will apply and AEMO will be required to determine a different Facility Class as per the new Facility Classes specified in section 2.29.
- If there is an **existing unregistered facility**, the facility will be assessed as per the new Facility technology types specified in section 2.29 and will be assigned a Facility Class.
- Any **new facility** participating in the Reserve Capacity Mechanism for the first time will be required to follow the processes under Chapter 4.

Specific Transitional Provisions – Registration for the 2021 and the 2022 Reserve Capacity Cycle

(Section 1.45)

RCM Market Participant: Means a Market Participant that is registered as an RCM Market Participant under clause 1.45.1; and

RCM Facility Class: Means the facility class referred to in clause 1.45.2 that applies to a Registered Facility under clause 1.45.1.

New RCM Transition Date: The date on which the 2021 Reserve Capacity Cycle commences.

Facility Class immediately before the New RCM Transition Date	Equivalent RCM Facility Class from the New RCM Transition Date
Scheduled Generator	Scheduled Facility
Non-Scheduled Generator below 10 MW	Non-Scheduled Facility
Non-Scheduled Generator at or above 10 MW	Semi-Scheduled Facility
Interruptible Load	Interruptible Load
Demand Side Programme	Demand Side Programme

Specific Transitional Provisions – Registration for the 2021 and the 2022 Reserve Capacity Cycle

Section 1.45

Where any of the following conditions apply to a Registered Facility, the RCM Market Participant for that Registered Facility must apply to AEMO to seek an assessment for an applicable RCM Facility Class in accordance with the timeframe and processes as specified in the WEM Procedure.

- (a) the Registered Facility's System Size is anticipated to increase or decrease after the New RCM Transition Date;
- (b) any new equipment is planned to be added to the Registered Facility after the New RCM Transition Date; or
- (c) the RCM Market Participant considers that registration in a different RCM Facility Class for that Registered Facility is more appropriate than the RCM Facility Class deemed by clause 1.45.2 (table on previous slide).



Specific Transitional Provisions – Registration for the 2021 and the 2022 Reserve Capacity Cycle

Section 1.45

- AEMO will develop a procedure to assess registration into a suitable Facility Class:
 - Whether the facility meets the de minimis threshold for registration
 - Controllability of the facility
 - Type of components
- AEMO's determination of a RCM Facility Class under this section 1.45 is final.

Specific Transitional Arrangements – Registration for the New WEM Commencement Day

Specific Transitional Provisions – Registration for the New WEM Commencement Day

Section 1.46

- Section 1.46 outlines the specific transitional provisions that will apply to Registration on and from the New WEM Commencement Day.
- Section 1.46 clauses drafted similar to section 1.45 and follow the same process.

Facility Class immediately before the New WEM Commencement Day	Equivalent Facility Class from the New WEM Commencement Day
Scheduled Generator	Scheduled Facility
Non-Scheduled Generator below 10 MW	Non-Scheduled Facility
Non-Scheduled Generator at or above 10 MW	Semi-Scheduled Facility
Interruptible Load	Interruptible Load
Demand Side Programme	Demand Side Programme

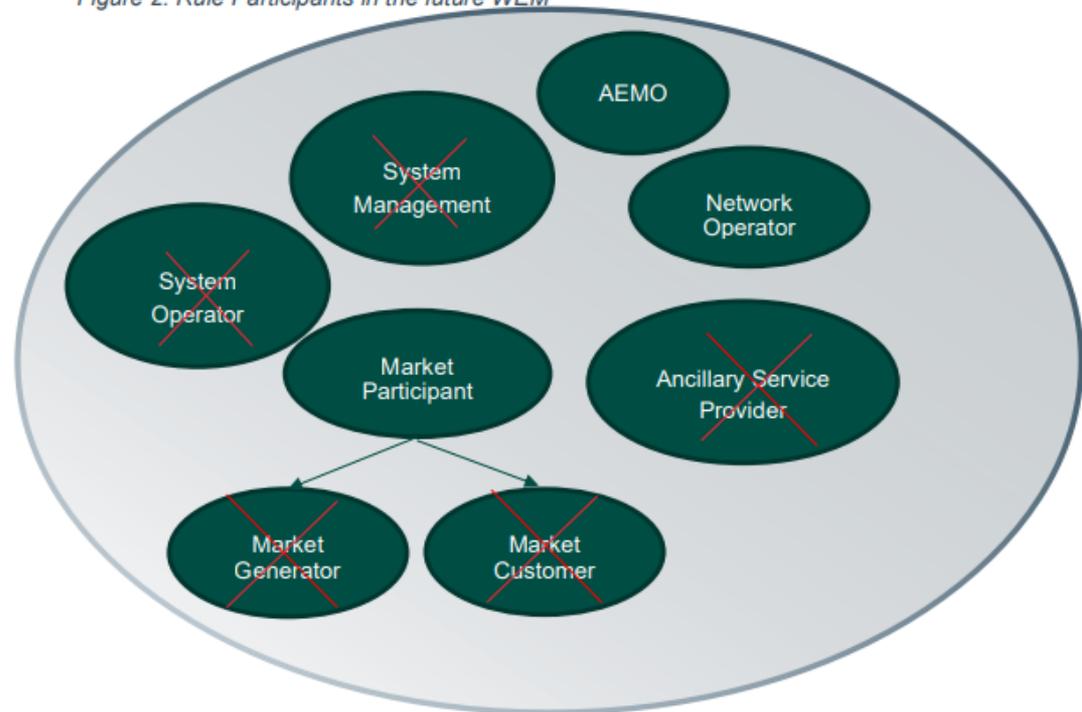
Rule Participants

Section 2.28.1

The classes of Rule Participant are:

- a) Network Operator;
- b) Market Participant; and
- c) AEMO.

Figure 2: Rule Participants in the future WEM





Requirement to register or exemption from the requirement to register based on System Size

Network Operators

- Must register their Transmission and/or Distribution System
- Cannot register in any other Rule Participant class.

Market Participants

- A person who owns, controls or operates an generation energy producing system with a System Size that **equals or exceeds 10 MW must register** as a Rule Participant in the Market Participant class.
- A person who owns, controls or operates an energy producing system with a System Size of **between 5 MW and 10 MW may apply to AEMO for an exemption** from the requirement to register. AEMO must grant the exemption unless for Power System Security and Power System Reliability.
- Any facility with a System Size of **less than 5 MW will have a standing exemption** from the requirement to be registered.
- However, AEMO may revoke a standing exemption for reasons of Power System Security and Power System Reliability.

Facility Registration Classes

Sections 2.29.1 to 2.29.2A

Facility Technology Types 2.29.1	Facility Classes 2.29.1A
a distribution system	a Network
a transmission system	a Scheduled Facility
an Intermittent Generating System	a Semi-Scheduled Facility
a Non-Intermittent Generating System	a Non-Scheduled Facility
an Electric Storage Resource	an Interruptible Load
a Scheduled Load	a Demand Side Programme
a Small DER Aggregation	
a Non-Dispatchable Load	

- No facility registered in one Facility Class can simultaneously be registered in another Facility Class unless;
- AEMO may allow a Market Participant to register a Demand Side Programme or Interruptible Load at a common set of network connection points to another Registered Facility.



Requirement to register a facility or exemption from the requirement to register based on System Size

Sections 2.29.1 to 2.29.2A

- A person who owns, controls or operates an energy producing system with a System Size that **equals or exceeds 10 MW must register the facility in a Facility Class.**
- A person who owns, controls or operates an energy producing system with a System Size of **less than 10 MW, but which equals or exceeds 5 MW, may register the facility in a Facility Class;** or otherwise, must apply to AEMO for an exemption from the requirement to register in the facility in a Facility Class.
- A person who intends to own, control or operate an energy producing system with a System Size that is **less than 5 MW is exempted from the requirement to register the facility in a Facility Class.**



Registration Process

Section 2.31

- Drafting amendments to section 2.31 (Registration Process) will be made in early 2021, however the following key changes are expected to be made to streamline and clarify the registration process.

New Facilities

- New participant enters the Reserve Capacity Mechanism, its energy producing system be assessed as per Facility Technology Types for the purposes of determining the relevant capacity certification methodology.
- Within the first year of the Reserve Capacity Cycle, intending participant's energy producing system assessed by AEMO based on System Size and controllability and assigned an indicative Facility Class.
- AEMO will issue a certificate of registration to that participant and its energy producing system is registered for the purposes of the WEM Rules.
- If, for any reason, the energy producing system is changed the certificate of registration will be automatically invalidated and a re-assessment for a different Facility Class will be undertaken by AEMO.

Existing Facilities

- Existing energy producing systems holding a certificate of registration will continue in the assigned Facility Class unless, for any reason, any changes are planned to be made that may trigger a re-assessment for a different Facility Class.



Pending work in Registration

- Section 2.30 Facility Aggregation
 - Section 2.30B Intermittent Loads
 - Section 2.30C Rule Commencement and Registration Data
 - Section 2.31 Registration Process
 - Section 2.33 Registration Forms
 - Section 2.34 Standing Data
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Meeting close

Questions or feedback can be emailed to TDOWG@energy.wa.gov.au