



**Energy Transformation
Implementation Unit**

WEM Reform Implementation Group (WRIG)

Meeting #5

1 October 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 wrig@energy.wa.gov.au after the meeting.
- The meeting will be recorded for minute-taking purposes. Please do not make your own recording of the meeting.
- Please state your name and organisation when you ask a question to assist with meeting minutes.
- If there are multiple people dialling in through a single profile, please email wrig@energy.wa.gov.au with the names of the attendees to be recorded in the minutes.
- If you are having connection/bandwidth issues, you may want to disable the incoming and/or outgoing video.

Agenda

9.30
am

Introductions

Aden Barker | ETIU

9.35
am

Joint Industry Plan – AEMO Implementation Updates

Ben Brearley | AEMO

9.45
am

Joint Industry Plan – Drafting and Plan Updates

Aden Barker | ETIU and Stuart Featham | AEMO

10.00
am

WEM Procedures – Content Review

Stuart Featham, Toby Price, Josephine Nga, Leon Kwek | AEMO
Mark McKinnon, Huuson Nguyen, Ayan Ghosal | Western Power

12.00
pm

Next Steps

Aden Barker | ETIU

Joint Industry Plan

AEMO Implementation Updates

Session Purpose

- Provide awareness of AEMO's program and project initiation activities.

AEMO Implementation Program Activities

AEMO have undertaken the following activities of its implementation program, including:

- Continued planning and design activity for the Constraint Management, Digital Platform, WEM Dispatch Engine (WEMDE) and Generator Performance Standards (GPS) projects
- Formal initiation of the Planning phase of the System Planning project, comprising Outage Management, Load Forecasting, System Operations Planning and PASA work packages
- Forward resource planning for technical Development and Testing roles, to inform procurement approach
- Onboarding of a new Project Manager, Business Analyst, Developers and Testers and continuing to recruit GPS Engineers and the Change Lead
- Continued platform setup (Hosting, environments, licenses) for the first implementation projects
- Commenced EOI process for approach to system certification.

AEMO Next Steps

- Complete GPS (mid-October) and Constraints Management (end-October) Planning phase
- Commence development and testing activity for GPS and Constraints projects
- Finalise recruitment of remaining Developers, Testers, Engineers and the Change Lead
- Commence Planning phase for the System Planning project.

Joint Industry Plan Updates

Session Purpose

- Provide an update on the Reform Rule Drafting Plan

Rule drafting timeline

Work package

Oct

Nov

Dec

Jan

Feb

March

April

TRANCHE 0

- Governance of constraints
- Technical Rules change management

TRANCHE 1

- Generator Performance Standards Framework
- Administrative Package
- Frequency Operating Standards and Contingency Events Frameworks

TRANCHE 2

- Foundation Market Parameters (incl. STEM)
- Frequency Co-optimised ESS
- Operating States and Tech Envelope
- Scheduling and Dispatch
- Outage Management and Commissioning Tests
- Operational Planning (PASA)
- WEM Monitoring and Compliance
- Market Settlement

TRANCHE 3

- Reserve Capacity Mechanism (RCM) Prioritisation and Network Access Quantities Framework
- Participation of storage/hybrid facilities in the RCM
- RCM changes consequential to SCED

TRANCHE 4

- Transitional Arrangements (e.g. ESS accreditation)

TRANCHE 5

- Non-Cooptimised ESS Framework
- Market Information Framework
- Market Power Mitigation
- Reliability Standards Framework
- Participation and Registration framework

Drafting instructions and rule drafting

Stakeholder consultation

Taskforce approval, publication of the Amending Rules and Gazettal

Rule Drafting Timelines

Revised grouping

Tranche	Content	Consultation Period	Min Approval and Gazettal
1	<ul style="list-style-type: none"> Generator Performance Standards Framework (incl. Ch. 3a, Appendix 12, and transitional rules) 'Administrative Package' Frequency Operating Standards and Contingency Events Frameworks 	1 Week Final Early-October	Late-Oct/ Early Nov 2020
2	<ul style="list-style-type: none"> Foundation Market Parameters (incl. STEM)** Frequency Co-optimised ESS** Operating States and Tech Envelope** Scheduling and Dispatch** Outage Management and Commissioning Tests Operational Planning (PASA) WEM Monitoring and Compliance Market Settlement 	Mid-Oct - Mid-Nov 2020	Early Dec 2020
3***	<ul style="list-style-type: none"> Reserve Capacity Mechanism (RCM) Prioritisation and Network Access Quantities Framework Participation of storage and hybrid facilities in the RCM RCM changes consequential to SCED Application and Queuing Policy for Constrained Network Access 	Mid-Oct – Mid-Nov 2020	Early Dec 2020
4	<ul style="list-style-type: none"> Transitional Arrangements (e.g. ESS accreditation) 	January/February 2021	Mar 2021
5	<ul style="list-style-type: none"> Non-Cooptimised ESS Framework Market Information Framework Market Power Mitigation Reliability Standards Framework Participation and Registration framework**** 	January-March 2021	Apr 2021

*The 'Administrative Package' comprises minor amendments to the WEM Rules to modernise naming conventions (such as changing Market Rules to WEM Rules) and remove inactive clauses which have already been executed.

** Amending Rules relating to Foundation Market Parameters items, FCESS, and scheduling and dispatch have already been subject to formal consultation for a four-week period. These Amending Rules will be updated in response to stakeholder feedback and re-released in a consolidated set of Amending Rules with other items under 'Tranche 2'.

*** Tranche 3 Amending Rules may be consolidated with those of Tranche 2 if both are completed at the same time and ready for simultaneous release.

**** Elements of the participation and registration framework, such as the registration taxonomy, will be included in Tranches 2 and 3 as they relate to the operation of SCED and planned changes to the RCM.

Joint Industry Plan (JIP) Milestones

As further planning progresses to detail the Implementation Program Plan, key milestones with industry-facing impacts will be added to the Joint Industry Plan.

The following categories of milestones will be included in the JIP:

Category	Symbol	Description
Significant Market Milestone	◆	A significant event in the WEM Reform Program, not necessarily related to system implementation.
Procedure Milestone	●	Events relating to consultation or development of Market Procedures.
Technical Go-Live	◆	Go-live for a system that may be used by Market Participant users or integrate with Market Participant systems.
Staging Deployment	◆	Staging deployment for Market Participants to test interfaces, business rules or usability of systems prior to formal go-live.
Technical Information Release	■	Information released that may be used by Market Participants to assist implementation activities.
Training	□	Training for Market Participants with regard to systems or market design.

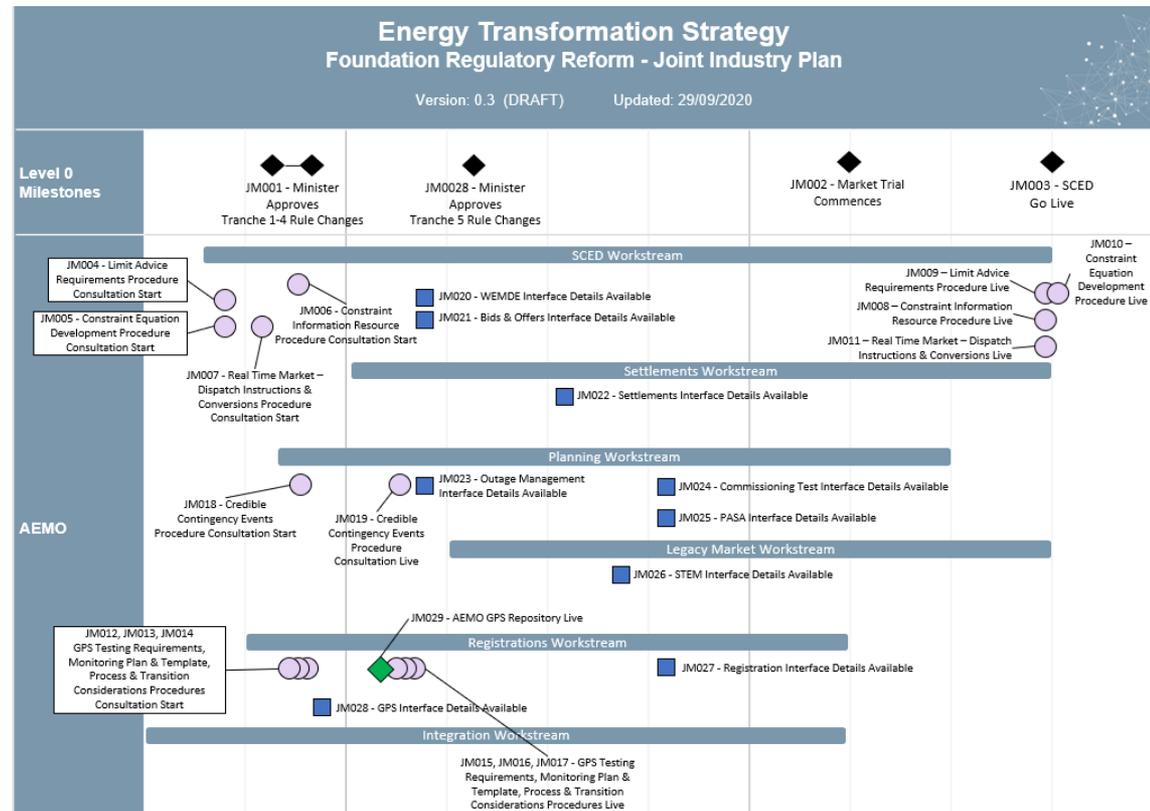
Further milestone categories may be added as necessary to improve the usability of the JIP as planning progresses.

JIP Review

The draft JIP was shared with WRIG members along side the minutes of Meeting#4 and feedback and proposals for activities and milestones are welcomed.

Minor changes have been made to the JIP and incorporated in the version shared for this meeting.

For Meeting#6 a milestone detail and change log will be developed to assist WRIG members in reviewing the JIP.



WEM Procedures Content Review

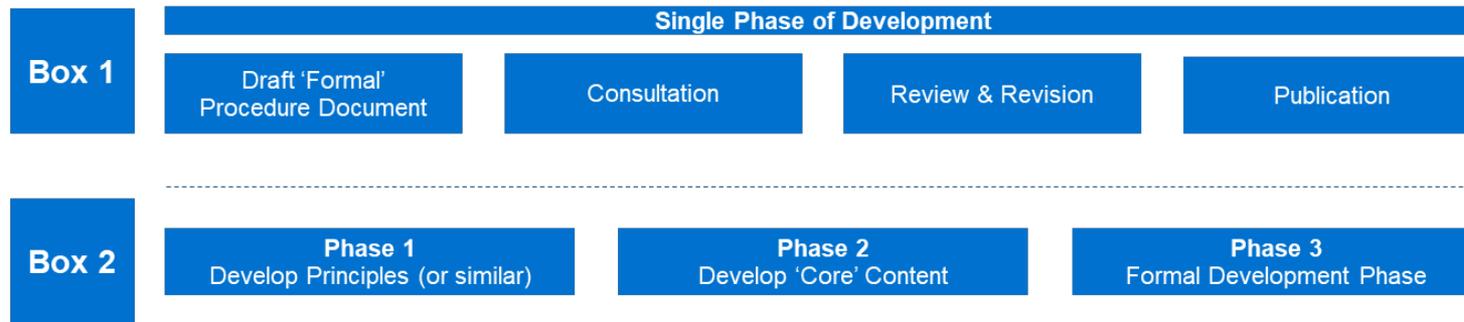
Session Purpose

- AEMO provide overview of WEM Procedure and development process
- AEMO and Western Power to provide WRIG Members with summary of key WEM Procedure content to support feedback process

WEM Procedures

Development and consultation approach

As per previous WRIG discussions, Box 1 Procedures will follow a single phase of development while Box 2 will undergo multiple phases (with consultation at all points):



Key elements of the development and consultation approach:

- ETIU to work with Procedures Owners to develop target dates for consultation
- Presentations and draft WEM Procedures will be developed by Procedure Owners with queries and feedback to be provided back to the specific technical leads/organisations
- Formal consultation/feedback windows will be provided for each WEM Procedure or related document with consideration given to complexity, scale and other WEM Reform documentation out for review – minimum timeframe proposed as two weeks
- Follow up page-turn or deep dive sessions may be arranged based on feedback provided
- Subsequent changes to finalised or approved documents will be managed in the same manner

WEM Procedures

WRIG Schedule – AEMO target dates through to end 2020

Meeting	Project	Topic/Procedure	'Box'
1 October	WEMDE	Transitional ESS Accreditation	2
	Constraints	Limit Advice Requirements	1
	Constraints	Constraint Equation Development	1
29 October	WEMDE	Communications and Control requirements	2
	WEMDE	Real Time Market – Constraint Equations	2
	WEMDE	Real Time Market – Dispatch Instructions & Conversions	1
27 November	Constraints	Constraint Information Resource	1
	GPS	Testing requirements	1
	GPS	Monitoring Plan and template	1
	GPS	Process and considerations for transitional monitoring plans	1
	WEMDE	Real-Time Market – Dispatch Algorithm, ESS Quantity Adjustment, Dispatch Override, Market Clearing Prices	2
	System Planning	Credible Contingency Events	1
17 December	WEMDE	SCADA/Comms and Fault Recorder standards	2
	System Planning	Reliability Standard Implementation Procedure	2

Next Steps

Looking towards WRIG#6





Next Steps

Joint Industry Plan

- ETIU will engage with ERA and Western Power to establish consultation dates for the 'high priority' Procedures they own
- AEMO will continue to refine and update both system design and Procedure milestones and reflect in JIP
- AEMO to develop milestone detail and change log
- AEMO to prepare initial materials on Market Participant testing and trialling activity (maybe reserved for WRIG-IT Meeting #2)
- ETIU to engage with Western Power and Synergy to establish what initial activities and milestones can be reflected in the JIP

WRIG Members – please continue to provide offline feedback, queries and suggestions on topics you would like further information on