



**Energy Transformation
Implementation Unit**

WEM Reform Implementation Group (WRIG)

Meeting #4

27 August 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

Arthur Panggabean, Ben Brearley and Stuart Featham | AEMO

10.15
am

Joint Industry Plan – Drafting and Plan Updates

Aden Barker| ETIU and Stuart Featham| AEMO

10.30
am

Next Steps

Aden Barker| ETIU

Joint Industry Plan

AEMO Implementation Updates

Session Purpose

- Update on the first WRIG-IT sub-group session.
- Provide awareness of AEMO's program and project initiation activities.
- Update on WEM Procedure Planning

WRIG-IT Forum Outcomes Summary

- First WRIG-IT Forum on 20 August 2020 to walk through area of WEM Systems with interface changes between AEMO and Market Participants. Presentation was distributed to WRIG distribution list
- Interface changes are generally driven by WEM Reform market rule changes. When applicable AEMO will implement internal technology refresh for some of the Market Systems
- Analysis on PASA and RCM has not been completed pending WEM Market rules/Procedures
- Some discussion points:
 - AEMO will continue to make historical data available for Market functionalities which will be deprecated, e.g. Balancing/LFAS, or systems which are re-platformed, e.g. System Management MPI
 - Concerns around suitability of CSV format for all submission types
 - Registration & User Management:
 - Downloadable web forms to enable visibility on types of data required
 - Ability to save partially filled web forms
 - B2B API for Registration data
 - Retain self-service user provisioning, including for B2B API users
 - Notification (Market Messages) to Market Participants:
 - Market Participants request for notification in other form than email, e.g. SMS or mobile notification.
 - AEMO to ensure notification system captures all Market Systems functionalities
 - Market Participants request for notification as B2B API. There were discussions around push/pull notification requirements. AEMO to include this as part of notification solutioning
 - Question raised as to whether Market Participants would need to submit GPS data to both AEMO and Western Power. The current position is that Market Participants would only submit GPS related data to Western Power, with data transfer then to occur between Western Power and AEMO.

AEMO Next Steps

- AEMO is working on the further technical details based on the schedule provided in the presentation (and reflected in the draft JIP)
- Next WRIG-IT meeting will be to discuss/showcase the interface to Generator Performance Standards

AEMO Implementation Program Activities

In addition to kicking off the WRIG-IT forum, AEMO have undertaken the following activities of its implementation program, including:

- Formal initiation of the Constraint Management, Digital Platform, WEM Dispatch Engine (WEMDE) and Generator Performance Standards (GPS) projects.
- Onboarding of new Project Managers, Change Managers, Solution Architects, Business Analysts, Principal Developer and Principal Tester roles.
- Commencement of detailed planning for the first implementation projects.
- Commencement of platform setup for the first implementation projects.
- Development of program-level technical architecture and security design.
- Development of project delivery framework and technology standards for implementation projects.

AEMO Next Steps

- Complete GPS and Constraints Management planning
- Finalise recruitment of technical development and testing roles
- Finalise implementation project technology standards
- Commence initiation process for the System Planning project.

WEM Procedures

3 Box Model Approach & Prioritisation

Following on from the previous WRIG, AEMO has continued to review Taskforce Information papers, drafting instructions and exposure drafts to determine WEM procedure requirements.

This review is identifying the Box 1 procedures and Box 2 priority topics that are needed to support both our own and Market Participant implementation activities.

Market Procedures & PSOPs
3 Box Model Approach

Box 1



- Required as a fully drafted and complete Procedure to support immediate requirements/obligations
- Examples includes Procedures stemming from the revised GPS or Constraints Governance obligations in the WEM Rules

Box 2



- Core content required (but not fully formed Procedures) to enable stakeholders to understand and assess proposed Rule/Code amendments or undertake implementation planning
- Examples include Procedures related to Settlements or Scheduling and Dispatch

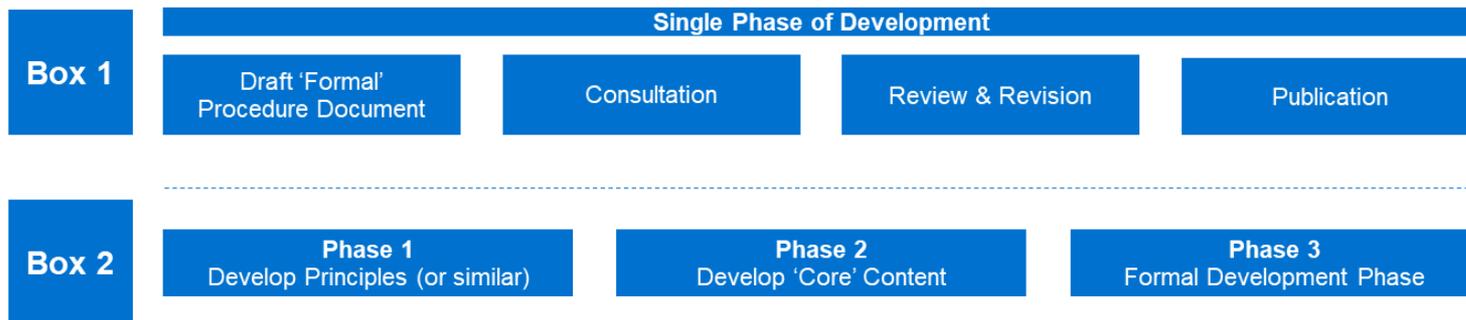
Box 3



- Procedures not required in the short-medium term to support Rule development or implementation planning – can be developed in parallel with implementation activities

WRIG Meeting #2 20

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):



WEM Procedures

WRIG Schedule – AEMO target dates through to end 2020

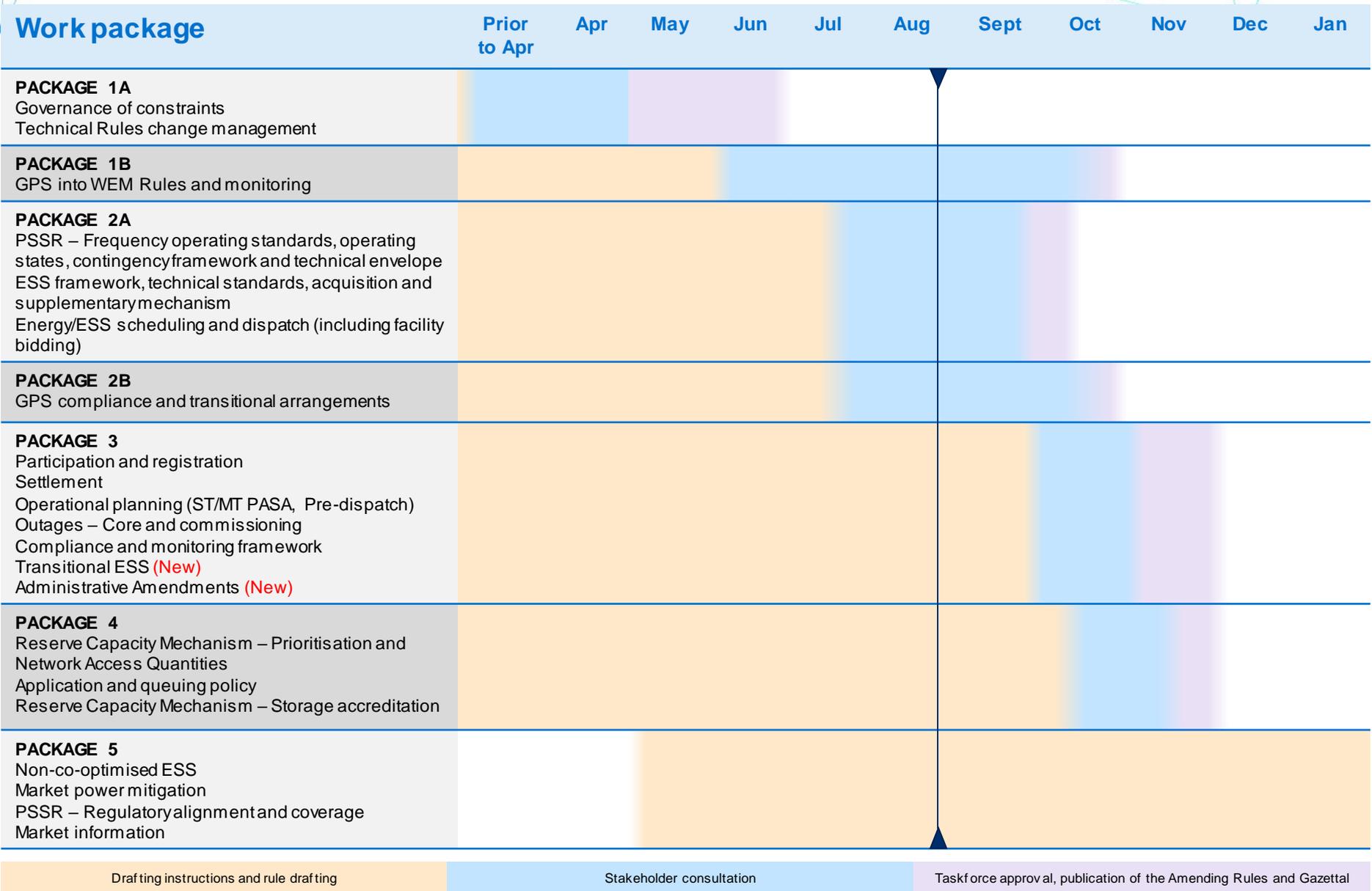
Month	Project	Topic/Procedure	'Box'
September	WEMDE	Transitional ESS Accreditation	2
	Constraints	Limit Advice Requirements	1
	Constraints	Constraint Equation Development	1
October	WEMDE	Communications and Control requirements	2
	WEMDE	Real Time Market – Constraint Equations	2
	WEMDE	Real Time Market – Dispatch Instructions & Conversions	1
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
December	WEMDE	SCADA/Comms and Fault Recorder standards	2
	System Planning	Reliability Standard Implementation Procedure	2

Joint Industry Plan Updates

Session Purpose

- Provide an update on the Reform Rule Drafting Plan

Rule drafting timeline



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.

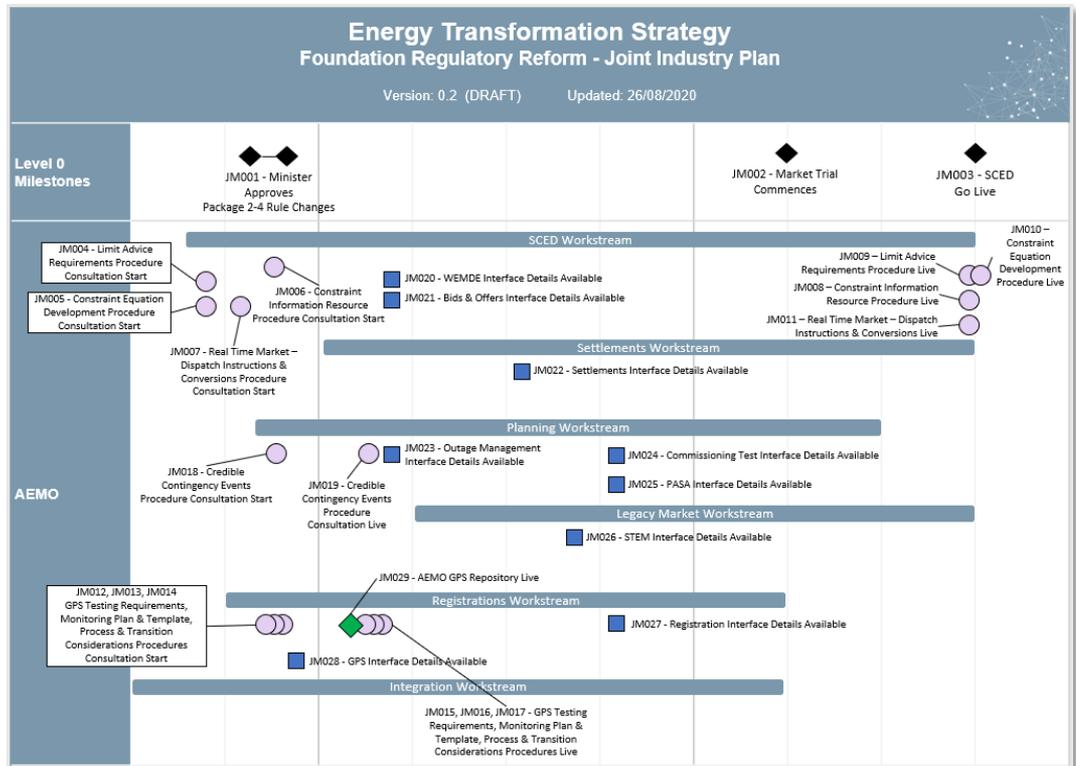
Further milestone categories may be added as necessary to improve the usability of the JIP as planning progresses.

JIP Review

AEMO have started to populate the JIP with information and dates based on its system and Procedure planning activities.

The JIP will continue to be updated and shared with WRIG members to enable progress tracking against key milestones in forthcoming sessions.

We would also like to start adding activities and milestones for other participants and welcome any input.



Next Steps

Looking towards WRIG#5





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 refine and update both system design and Procedure milestones and reflect in JIP
- AEMO and 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