![Energy Transformation Implementation Unit]

WEM Reform Implementation Group (WRIG)

Meeting 4, 2021

29 April 2021

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
Dora Guzeleva | ETIU

9.35 am

Joint Industry Plan – Plan Updates
Dora Guzeleva | ETIU
Stuart Featham & Mariusz Kovler | AEMO

10.00 am

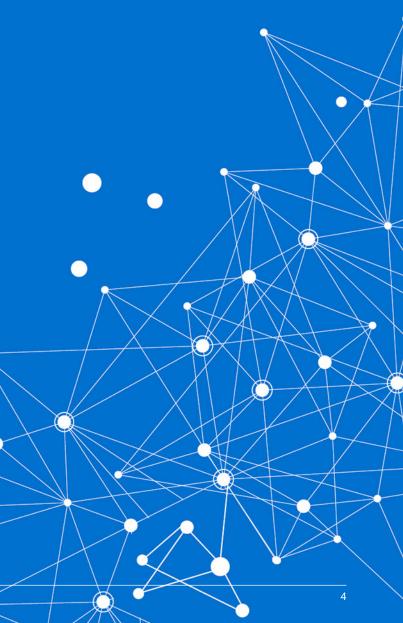**WEM Procedures**
Jas Bhandal & Clayton James | AEMO

10.25 am

Next Steps
Dora Guzeleva | ETIU

Joint Industry Plan
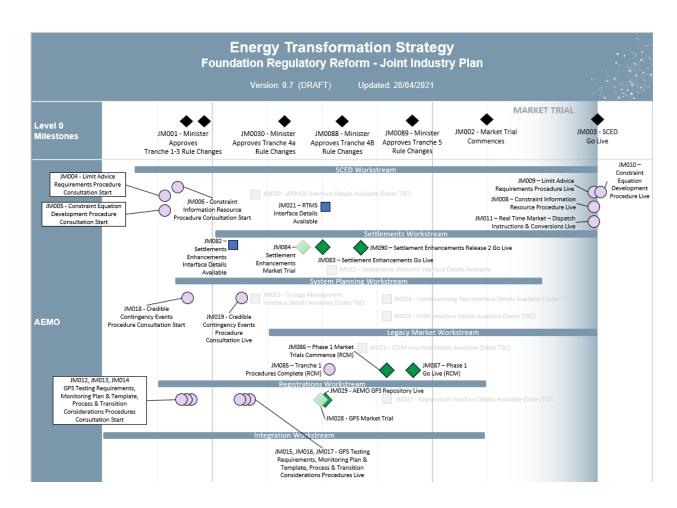## Updates

Session Purpose
- ETIU provide awareness of rule drafting timelines and progress
- AEMO, Western Power and Synergy to update on progress to run through key JIP Milestones

Joint Industry Plan
Updates and run through

AEMO, Western Power and Synergy to run through key milestones, status and changes in JIP.

Updated JIP and Milestone Log will be circulated/published alongside WRIG Meeting Minutes.

Joint Industry Plan
Rule Drafting Timeline

Work package	March	April	May	June	July	August
TRANCHE 0 - GAZETTED • Governance of constraints • Technical Rules change management, etc						
TRANCHE 1 - GAZETTED • Generator Performance Standards Framework • Frequency Operating Standards and Contingency Events Frameworks						
TRANCHE 2 - GAZETTED • Foundation Market Parameters (incl. STEM) • Frequency Co-optimised ESS • Scheduling and Dispatch • Market Settlement, etc						
TRANCHE 3 - GAZETTED • Reserve Capacity Mechanism (RCM) Prioritisation and Network Access Quantities Framework • Participation of storage/hybrid facilities in the RCM, etc						
TRANCHE 4A (now) • Transitional Arrangements (e.g. ESS accreditation) • Changes and Rules commencement to facilitate 2021 RCM, etc.	▓	▓	▓			
TRANCHE 4B (July/August) • UFLS & System Restart • Remaining changes to facilitate 2021 RCM • Changes and Rules commencement to facilitate 2022 RCM				▓	▓	▓
TRANCHE 5 (December) • Non-Cooptimised ESS Framework • Market Information Framework • Market Power Mitigation • Reliability Standards Framework • Participation and Registration framework • Intermittent Loads						

Drafting instructions and rule drafting	Stakeholder consultation	Ministerial approval, publication of the Amending Rules and Gazettal

Tranche 4A - Rule Changes to Facilitate RCM Procedures

Changes to facilitate Indicative Facility Class Procedure:

- To avoid duplication, remove the heads of power for WEM Procedure in clause 1.45.10 as this is will be covered in WEM Procedure clause 4.8A.7

- Remove Small Aggregation from 2.29.1 and place it into 2.29.1AA to remove the circularity of the definition

- Require additional information to assist with Indicative Facility Class determination

- Clarify process for assigning an indicative Facility Class (4.8A) and assigning an RCM Facility Class (1.45.9)

Change "ESR Metering" to "Component Metering" to facilitate Sub-metering Procedure:

- 2.29.12.   A Market Participant for a Scheduled Facility or Semi-Scheduled Facility containing ~~an Electric Storage Resource multiple~~ Separately Certified Components must ~~install~~ have Facility Sub-Metering ~~for the Electric Storage Resource~~ ~~and all associated Parasitic Loads.~~

- **Facility Sub-Metering**: Metering arrangements sufficient to calculate the contribution of each Separately Certified Component and associated parasitic loads to the Injection or Withdrawal of energy for a Facility, which may include use of Meter Data Submissions where each Separately Certified Component is not individually metered.

AEMO Implementation Program Activities

AEMO's implementation program update includes the following:

- Continued Operational and Market Readiness activities.

- Continue Bids & Offers technical delivery – renamed Real Time Market Submissions – (RTMS) – good initiation and ramp up period with vendor, and planned as per WRIG-IT.

- Completed RCM (Phase 1) market procurement activity – decision now pending on preferred supplier.

- Completed WEMDE market procurement activity – decision now pending on preferred supplier.

- Continued GPS, Constraints Management and Settlements Enhancements system development and service transition. Minor impacts to GPS and Settlements Enhancement go live dates (as discussed at WRIG-IT).

AEMO Next Steps	- Continue Operational and Market Readiness activities - Settlements enhancements market trial in June, 2 release strategy. - Continue RTMS technical delivery - Commence RCM build (development and test) activity - Commence WEMDE build (development and test) activity pending procurement completion - Prepare for next WRIG-IT – planned for 3 June - Complete Constraints UAT by June - Build out System Planning projects backlog, initiate remaining projects (RCM NAQ etc)

Readiness & Reporting Strategy
Consultation Feedback

Comment 1: Flexibility Given the complexity, breadth and pace of change in the WEM, the Market Readiness strategy needs to have some flexibility built into it. There may be gaps/errors, which may require rapid updating of processes/software and regulatory instruments, meaning ancillary actions will have to be managed and may impact mainstream activities. This may lead to additional expenditure and put pressure on acquiring additional funding **Action** AEMO will monitor this risk via the Readiness Working Group and adapt the strategy as required.	**Comment 2: Contingency Planning** Contingency Planning should address whether the market starts will happen if some participants are not ready. If so, how many participants / type of participants – this becomes a critical go/no go matter and how to deal with that participant in the market sense (put them on outage until they can go) **Action** The go/no go criteria outlined above will be addressed as part of contingency planning
Comment 3: Survey Report Design Use traffic lights to make the criteria easily visible rather than text. For percentages use Harvey balls with traffic light colours to represent status – so 25% green would be 25% on time, 25 % red would be 25% and late / at risk – this sort of visual representation is easier for people to get a quick look at the overall picture and see what issues should be focussed on – without reading too much text) **Action** These recommendations will be considered when designing the visual outputs of the survey	**Comment 4 – Survey Report Format** Make this information available in a way that individual participants can use the report in their internal reporting (for example produce it as PowerPoint slides). **Action** PowerPoint slides will be produced and shared via the Market Readiness Working Group and WRIG.

WEM Procedures

Session Purpose
- AEMO to discuss:
  - High Resolution Recorders

WEM Procedures
WRIG Schedule

Meeting	Owner	Project	Topic/Procedure
29 April	AEMO	WEMDE	High Resolution Recorder Requirements
27 May	AEMO	WEMDE	ESS Accreditation Update
	AEMO	RCM	RCM Registration
24 June	AEMO	WEMDE	Participant Submissions
	AEMO	System Planning	Scenarios Modelling (ST and MT PASA)
29 July	AEMO	WEMDE	Real-Time Market Timetable
	AEMO	RCM	Certification of Reserve Capacity

Next Steps
Looking towards future WRIGs

Next Steps

- Inaugural Readiness Working Group to take place Tuesday, 3 May with updates provided to full WRIG at Meeting #13 on 27 May

- AEMO to publish draft Market Test Strategy document in preparation for further discussion at WRIG-IT on 3 June

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