

Minutes

WEM Reform Implementation Group – Meeting 9, 2021

Time: 9:30am – 12:00pm
Date: 30 September 2021
Venue: Teleconference

Attendees:

Name	Organisation	Name	Organisation
Alan McDonald	Bluewaters	Robin Parsons	AEMO
Aditi Varma	EPWA	Sally Campbell	Western Power
Alex Gillespie	AEMO	Shelley Worthington	EPWA
Arthur Panggabean	AEMO	Simon Middleton	AEMO
Ben Connor	Synergy	Stacey Fontein	Western Power
Brad Huppatz	Synergy	Stuart Featham	AEMO
Claire Richards	EnelX	Sumeet Kaur	Shell
Clayton James	AEMO	Teresa Smit	AEMO
Craig Beasland	AGL	Tinna Needham	Western Power
Dimitri Lorenzo	Bluewaters	Toby Price	AEMO
Dino Perumal	AEMO	Valentina Kogon	EnelX
Dora Guzeleva	EPWA	Wayne Traill	Western Power
Erika Canuti	AEMO	Wendy Ng	ERM
Erin Stone	Point Global		
Gavin White	ERA		
Harry Street	Entego		
Irina Stankov	ERA		
Jake Flynn	ERA		
Jo-Anne Chan	Synergy		
Judy Hunter	Western Power		
Kaye Anderson	AEMO		
Keelie Hoskin	EPWA		
Kristy McGrath	AEMO		
Liam Staltari	AEMO		
Mariusz Kovler	AEMO		
Mark Katsikandarakis	AEMO		
Mark Riley	Perth Energy		
Melinda Chapple	Synergy		
Mike Hales	AMEO		
Mike Reid	AEMO		
Nicki Eastman	AEMO		
Oscar Carlberg	Alinta		
Patrick Peake	Perth Energy		
Peter Huxtable	Water Corporation		
Rajat Sarawat	ERA		
Rebecca White	Collgar		
Rhiannon Bedola	Synergy		

Slide No.	Issue
New WEM Start Date (Dora Guzeleva EPWA, Stuart Featham AEMO)	
1 -5	<ul style="list-style-type: none"> • Dora G (DG) introduced the meeting and gave an overview of the agenda, highlighting that: <ul style="list-style-type: none"> ○ After long and detailed consideration the Government has confirmed the new commencement date for the new Wholesale ELeCtricity Market (WEM) - 1 October 2023 ○ A report by AEMO on Tuesday highlighted the work of the Energy Transformation Strategy and other associated initiatives in making significant progress to mitigate risks to system security, giving government confidence to delay the date – in addition to the feedback provided from AEMO ○ Main purpose for the delay is to make sure the delivery risks are as low as practicable and to allow AEMO and Market Participants to have sufficient time to progress to a successful market implementation - without leaving anything behind <ul style="list-style-type: none"> ▪ The 1 October 2023 commencement is set in stone - it will be in line with a refreshed AEMO implementation plan ○ There will be an updated Joint Industry Plan (JIP) plan with new dates and an updated monitoring plan published after this meeting
6	<ul style="list-style-type: none"> • Stuart Featham (SF) provided an overview of the program changes flowing from the extension: <ul style="list-style-type: none"> ○ AEMO is positive about the extension and looking forward to engaging with MP going forward <ul style="list-style-type: none"> ▪ there is now a timeline that we are collectively capable of delivering against – while at the same time mitigating the risks of rushing through a program ▪ We worked hard to deliver against the original timeframes, but it just wasn't possible and feedback received shows we all needed this time as the changes are significant and challenging ○ Slide provides reflection from AEMO's perspective – regulatory intent and obligations from the new rules, what it is going to take to deliver and meet those requirements ○ AEMO tried to ascertain how to do it as quickly as possible – however there are limitations as to what can be done because of the interconnectedness of the way the market design works ○ There wasn't too much scope for a phasing activity, aside from the majority of Reserve Capacity Mechanism changes which need to go live before the SCED and ESS arrangements go live <ul style="list-style-type: none"> ▪ There are some things that aren't critical to go live which we are proposing can come a little bit later (addressed further on) ○ Massive part of the program/body work in terms of supporting the changes - Alex and team have come up with a revised calendar for WEM Procedure development ○ System perspective - acknowledge importance of interface specifications and details around what we are doing with our systems in order to help you plan ○ Acknowledge the original timeframes were getting very tight and hope revised timeframes allow for adequate time to prepare, plan and deliver those changes from a MP perspective <ul style="list-style-type: none"> ▪ Next survey on readiness deferred to Jan 2021 – the readiness working group/survey will play a key role in supporting ministerial requirements and reporting arrangements ▪ Readiness working group itself is proposed to be moved to bi-monthly frequency ▪ MP training and education to continue ▪ Industry Testing and Market Trial Strategy – intending to publish by Feb 2022 (broad strategy in terms of testing and approach to market trial) ▪ Market Trial - intending to publish by Q3 2022 in advance of the Market Trial Period starting in early 2023 ▪ Market Transition Plan intending to publish Q4 2022 – decision making process and tactile steps we as an industry are going to need to switch from current to new market

Rules Gazettal Schedule (Dora Guzeleva, EPWA)

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- DG provided an update on the Rules Gazettal Schedule and noted that:
 - Last update was that Tranche 4b was in progress with lawyers – it has now been gazetted and the rules were published on 20 September 2021
 - 3 commencement notices published in gazette and the Coordinator’s website has the amending rules
 - A refresh as to what was included/has been consulted on:
 - new rules for under frequency load shedding (UFLS)
 - changes to system restart rules following consultation earlier this year
 - new process for rules change management for specified technical standards (WEM Technical Standards), which now involves consultation with AEMO, WP and CoE as the rule maker
 - changes to RCOQ shortfalls and refunds when capacity is declared not in service – and also electric storage resources
 - Commencement notice focused on commencement dates to assist with commencing Reserve Capacity Cycles
 - Publishing 1 October 2021 – new official consolidated version of rules on EPWA website which will include RCM pricing rules and a lot of rules commencing from Tranche 4b (everything commenced)
 - Requested lawyers to pull together another companion version, a non-official version of the rules that will include all changes that have been made and those that have not commenced
 - Working over past two months with AEMO for Tranche 5 gazettal in December which covers important chapters and changes to rules to:
 - Finalise the participation and registration framework
 - Implement changes to intermittent loads provisions in accordance with some Taskforce decisions
 - introduce a Non Co-optimised Essential System Services (NCESS) framework, to commence soon thereafter to allow for procurement of NCESS as required
 - Implement additional changes to RCOQ provisions and Reserve Capacity testing rules in chapter 4
 - TBC – Market Information Framework outstanding (paper published this year)
 - Tranche 6 in 2022
 - For the time being will cover typographical errors, manifest errors, emissions that we have been logging – essentially a complete set of clean up rules – so if you spot anything please let us know
 - Possible that there will be other rule changes that we are unclear about right now, Tranche 6 or part of it may need to be brought forward but we will keep you informed of that
 - Question from Patrick Peake (PP) – It would be good to have an update on what impact this deferral will have on the cost of implementation. I would not like to see extra market fees been applied over the next couple of years because customer contracts have already been signed for much of the supply during this period. Will there be a deferral of the deadline for generator performance standards? What about certification timetable for provision of ESS?
 - Clayton James (CJ) confirmed the ESS provisions are currently linked to new market start – so therefore the process that enables ESS accreditation still commences from 1 October 2020. We’re getting ready to publish the WEM procedure and documents to go along with that. The accreditation process can commence but it’s still tied to market start so there is extra time for MP to prepare facilities to be accredited.
 - For GPS no explicit deferral to the end date, however the framework itself already comes with the ability to extend based on the progress that has been made
 - SF advised there will be an update on WEM reform forecasts at the special WAECF on 13 October
 - Question from Rebecca White (RW) I understand that WP was planning to release its relevant generator modification guideline at the end of September. Despite the delay in market start, it would still be useful for this to be released as planned.
 - Mike Chapman (MP) advised he would provide further comment on this in a future slide

Implementation Plan (Maruis Kovler, AEMO)

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- Marius Kovler (MK) provided an update on the Implementation Plan and noted that:
 - Today will be slightly different format to usual WRIG meetings – AEMO will show participants what the current implementation plan looks like through a plan on a page
 - First thing to note – whilst we have market trial start of April 2023 – market trial will ramp up from Jan 2023 and we’re anticipating there will be a soft start to market trial
 - Constraints and constraints equations project progressing nicely – ready to be consumed by other projects
 - WEMDE – integrating those equations and data accordingly - and similarly we are starting to do that on real-time market submissions as well
 - WEMDE user interface – has commenced planning and will run parallel to the WEMDE project
 - Last night we went live to production with settlement enhancements Release 2 (deals with settlement changes that we have been making) effectively taking us to the end of an 18 month process
 - Settlements Workstream –
 - We’re going into planning of that project at the moment, which will take us to January with the execution continuing from there on
 - From AEMO’s perspective everything needs to come in and go through the settlements for effective system integration testing (SIT)
 - System Planning Workstream
 - This is where the biggest change has happened since the last version given the date change
 - Currently executing outage management project, forecast integration and MT PASA
 - Legacy Market Workstream
 - Still looking to December to meet obligations around RCM for upcoming Capacity Year Cycle – running well and on track – second release April 2022
 - Moving into planning and executing the NAQ model which is a separate phase of that particular project and we have moved STEM towards the end of that (smallest project we have)
 - Registrations Workstream
 - GPS has been effectively live for a while and is closing out from our perspective, some minor reporting requirements left
 - Registration – gazetted from December, as a result planning and executing from January 2022 onwards
 - Integration Workstream
 - Some of these may still shift slightly on this schedule – but we have a high degree of confidence that we can execute according to schedule and in some areas – are being integrated today into WEMDE
 - This is AEMO’s new plan on a page – we fully understand that MP need to absorb this and what this means for their projects
 - Question from RW – will AEMO support period for RTMS testing be extended beyond the November 2021- February 2022 timeline announced last week?
 - MK replied at this point we don’t anticipate that it will but I will take question back to the team. We took that feedback back last week and are still processing exactly what that looks like and we will come back accordingly
 - Will there need to be some transitional rules for registration to allow projects that were to come onstream between 1 October 2022 and 1 October 2023 using the new registration framework or is it that any projects that cannot fit into the current registration framework would need to be delayed?
 - DG answered that no projects will be delayed because of the registration framework – we are just refining to make it more complete and there is an automatic transfer for all existing projects from the existing registration framework that operates in the current market to the new one
 - There will be an opportunity before market start for new projects to be registered in the new framework. There is also in the RCM an indicative facility class provision, so every new facility that is coming in the 2021 cycle and 2022 cycle would get this indicative facility class in accordance with the new taxonomy

Generator Performance Standards Updates (Mike Chapman, Western Power)

9	<ul style="list-style-type: none"> • Mike Chapman (MC) provided an update on GPS, noting that: <ul style="list-style-type: none"> ○ WP is still working through submissions – there were a number of questions around changes to market start affecting GPS <ul style="list-style-type: none"> ▪ Fundamental answer is no it does not affect GPS – there are provisions already in place for extension in the existing framework and if there are any concerns about ability to meet timelines please reach out (GPS team via system analysis mailbox or alternatively through customer manager) ○ GPS template Version 4 is going to be coming out in the next week or so – we were holding off as this was predominantly linked to Tranche 4b WEM Rules <ul style="list-style-type: none"> ▪ Contains minor administrative tweaks and more significantly changes to a couple of technical requirements to cover off updates to technical requirements changes linked to Tranche 4B effective 1 October 2021 ○ The new template is required for final submission – if you were planning on sending a submission anytime soon WP suggests holding off until the new template is distributed ○ Changes will have a minor impact – should be able to copy and paste into the new template ○ Will need to look at how inertia and frequency control in 12.6 has changed, there are no new requirements to test these changes are really making it easier especially for new generators rather than existing ones (if you're grandfathered you're grandfathered) ○ WP will be communicating directly to MP once the new template is available – have a look at how Appendix 12 is changing in the Tranche 4B WEM Rules ○ Quick update on the relevant generator modification (as described in clause 3A.13.2) – previously communicated this would be available this month <ul style="list-style-type: none"> ▪ Recent review has meant that more detail is required in relation to the addition of new technology to synchronised facilities – reviewing release timeline of this document and WP will be communicating more in the near future to MP ▪ Any questions – reach out to WP directly as soon as possible (via customer manager)
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Joint Industry Plan (JIP) (Mike Reid, AEMO)

10-14

- Mike Reid (MR) provided an update on the Joint Industry Plan (JIP) noting:
 - Purpose of this short walk through is to explain the approach and provide reassurance that MP will start getting more specifics from the JIP – feedback received shows that participants have been finding it hard to progress internal workplans and bringing on resources etc without specifics
 - As the announcement was only made today – AEMO has not had a chance to sit with Synergy/WP to restructure the plan
 - Presentation will show how the JIP is evolving and to provide updates to AEMOs milestones - expanded list considerably
 - Expanded list of milestones considerably, where we can we have highlighted concrete milestones, and where this is not possible we will provide more visibility as to where the project is expected to be at a given time so that MP can manage expectations
 - Progressively publishing milestones around when the project starts, completion of planning phase (for scheduling and detail and having technical answers – when tech specs have not yet been released)
 - Give an indication of the types of milestones by looking at sets of workstreams, for each project you will see shading, and milestones relevant to that project
 - SCED Workstream – e.g. for constraint management there is a milestone indicating when we're targeting to make constraint information resource available
 - System planning Workstream – e.g. broken into more detail, looking at individual projects
 - Settlements, Legacy and Registrations Workstreams -
 - New milestones – with the updates to WEM procedures consultation timeline – we now have sets of publications dates for WEM procedures which will give you a sense of when a lot of technical answers might be resolved
 - e.g. for those Procedures associated with constraint management reform we will identify what is the latest publication date – to give some sense about when technical questions may be resolved
 - Grouping by project, providing interim milestones with specific information to help with MP planning
 - Technical specification release dates
 - Dates are currently provisional – will continue to be updated and incorporated into JIP
 - In some cases there are TBC
 - Published in slide available on EPWA website

WEM Reform Portal for Market Participants (Kristy McGrath, AEMO)

15-18

- Kristy McGrath (KM) provided an update on WEM Reform, noting that:
 - Success in change management for our MPs means that your business systems and people are ready to operate in the new WEM in 2023 – AEMO can provide effective, relevant and timely information that can help inform decision making
 - Slide presents verbatim feedback from market readiness surveys and consultation with MP technical teams – KM noted it is clear that we need to improve information provided to MPs – AEMO thanks MP that provided feedback through the surveys
 - In response to feedback AEMO proposed the Information Architecture for “The Reformer”
 - a SharePoint comms site which provides a simple, low-cost and ubiquitous platform based on Microsoft Office 365
 - portal where all information will be consolidated for MP’s
 - as some information is not in the public domain this will password protected site (2FA) – AEMO will engage at a later date and you will need to advise which employees require access to site
 - request feedback on structure and any additional content you require from the site
 - Note: highlighted content in the slide will not be there on the launch but will be added at a later date
 - Architecture proposal includes 7 key areas:
 - WEM reform: basic info and aside from JIP and Q&A content will be largely static
 - Market design: overview of document, rules and procedures and some market design fact sheets
 - Implementation Projects: project overview, tech specs, timelines
 - News and Forums: consolidate various forums in one place, includes recordings
 - Developer Centre: tech showcases, how-to videos, tech Q&A’s (developer centre a specific request from consultation, looking to add a developer community here)
 - Online Resources: work to do for content here – education and training
 - Market Readiness: industry testing, strategies, market trial
- Timeline will be sent out with WEM reform update
 - Please provide any additional feedback by Friday 8 October 2021 and then starting the build
 - We will contact you to find out who from your business should have access to the portal
 - Looking to launch The Reformer before the end of the year
- Question: what does it mean the content is not public?
 - KM answered that a lot of the content won’t be for the public domain – e.g. the congestion information resource (will not be public until go-live date), WRIG-IT presentations
- Comment from Mark Riley (MaR) – for a participant that is considering entering the WEM, there’d need to be some sort of public point where they can see that they would need to contact you to request access because otherwise a lot of this stuff just won’t be visible to anyone looking around to try and find out what’s going on in the WEM
 - KM responded - we have just launched today a new set of public facing web pages which do have some detailed information on what is taking place in WEM reform and there’s also information on there providing information on how to get access to this portal. A link will eventually be provided but registration is required in order to access the portal
- Oscar Carlberg (OC) noted this is a great resource and also noted that on the ‘What is WEM reform?’ part, can it highlight the key things that are changing so that people know what are the main changes? What are we moving from what are we moving to – at a high level
 - KM replied that is a really good point and it’s probably not considered there
- MaR noted given the delay of the reforms for an extra year, I would’ve thought that this is going to start crossing over the 5 min reform, is this where the 5 min information is going to be placed or will there be another place for that?
 - KM replied I don’t have an answer for that one I am sorry
 - MK added – I think the intent at this point in time is for this to be related to the WEM Reform not so much 5 min settlement. The desire here is to really have this interactive – whilst we have the content pillars here, the underlying technology provides for opportunities for things like Yammar, to collaborate teams, and interactive comms etc so that we can all collaborate more interactively than we do today, allowing feedback instantly and also to be able to measure participant engagement in a digital format.
 - To answer your question, when we do this, if this is successful it could become a model for other programs that AEMO is involved in noting that there will be specific target audiences, we could replicate this easily for other work (e.g. congestion information resource)
 - MaR added that this kind of tool could be useful for the 5MS project from the outset – to avoid chasing around
 - MK acknowledged the comment and thanked MR for the feedback – from a backend perspective this kind of database is quite easy to do
- MaR asked will various forms like GPS forms (including WP forms) be referenced on the SharePoint site? Centralising everything helps
 - KM noted that we can do, we hadn’t planned to, but we can do if this is useful to make everything centralised
 - MR added WP has its own strategy for communicating those things so we will investigate that we are providing the best way to access information, providing links to website etc

19-21	<ul style="list-style-type: none"> • Clayton James (CJ) provided an overview of the Congestion Information Resource (CIR) <ul style="list-style-type: none"> ○ CIR is the place we publish all the congestion related information <ul style="list-style-type: none"> ▪ including constraint equation library, associated limit advice and information on binding restraints (this will go live once we have this data) ▪ prior to market start we are keen to publish the first cut of the constraints library – to enable MP to familiarise with the types of constraint equations and how this will impact facilities ○ Ready to publish first set of thermal constraints ○ Also have non- thermal constraint equations that are also close to being published <ul style="list-style-type: none"> ▪ AEMO will continue to work through these right up till market start, so this list will grow ○ Initially will be published through Reformer site and then will move to the public facing website at Market Start
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WEM Procedures (Alex Gillespie, AEMO)

	<ul style="list-style-type: none"> • Alex Gillespie (AG) provided an update on the development of WEM procedures: <ul style="list-style-type: none"> ○ Next month at next WRIG sessions for: <ul style="list-style-type: none"> ▪ declaring emergency operation states ▪ declaration of bilateral trades and capacity credit assignment ▪ update to indicative facility class and RCM facility class assessment procedure that was published as live previously (minor amendments to reflect rule changes) ▪ feedback to some of the procedures that have undergone consultation previously • DG advised on chat that MC from WP added that WP hosts all GPS documents on one page that is easy to link to • Ben Hammer (BH) asked are the constraints in a form where they can be evaluated using market information i.e. without any info that would normally only be available to WP? <ul style="list-style-type: none"> ○ CJ answered – there will be an equation form similar to what the NEM constraint equations look like in the NEM constraint library, in terms of accessing historical data some of them will need line flow type information which is not stuff that we would have typically published previously, so I acknowledge there is some data that you won't hold so AEMO will need to work through that a bit more
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Participants Submissions Slides (Erika Canuti, AEMO)

See relevant AEMO slides	<ul style="list-style-type: none"> • Erika provided update on Participant Submissions WEM procedure advising: <ul style="list-style-type: none"> ○ Currently developing WEM Procedures for Real-Time Market Submissions – content includes required format for RTM submissions, process around how to make submissions and how AEMO processes these submissions ○ The Procedure also includes: <ul style="list-style-type: none"> ▪ Some limitations and specific requirements – e.g. maximum number of price quantity pairs ▪ Types of day that can be nominated in a Standing submission ▪ RTMS Acceptance Horizon ○ Other document will be released in support of the RTMS procedure: <ul style="list-style-type: none"> ▪ WEM Real-Time Market Submission Specifications containing: <ul style="list-style-type: none"> • submission format detailed requirements • details on validation rules applied to submissions and related error messages • how to make submissions using web services API ▪ RTMS User Interface Guide ○ Final dates for releasing the RTMS WEM Procedure to be confirmed, aiming to make draft procedure prior to start of market testing phase for RTMS ○ The first draft of the WEM Real-Time Market Submission Specifications was released few months ago and has been updated (draft 0.4 released a couple of weeks ago with latest updates) ○ RTMS User Interface Guide aiming to be released at MP Interactive Showcase session at the beginning of November
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Changes to WEM Procedure Timeline (Alex Gillespie)

22	<ul style="list-style-type: none"> • AG provided an update on changes to WEM Procedure timeline noting: <ul style="list-style-type: none"> ○ updated timeline published this morning ○ overview of changes <ul style="list-style-type: none"> • included head of power clauses as previously requested • changes made to dates are in line with implementation plan that Marius covered earlier • WEM procedures scheduled to be in publication for market trial, now we can space these out and align them with the relevant project phases • AEMO WEM reform procedure page is live. Central page for all things WEM procedures. • will be including provisional published WEM procedures – those that have undergone stakeholder consultation and have had final approvals, they will be published in draft state • intention is to have all the information on the one page • please send through any specific comments or feedback
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Next Steps (Dora Guzeleva, EPWA)

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- Next Steps – DG
 - Documents published on the website including update to JIP
 - Next WRIG 9.30am Thursday 28 October 2021
 - Next WRIG-IT meeting scheduled
 - 14 October: RCM Release, testing and training updates
 - Readiness Working Group #5 scheduled for 19 October 2021
- AG inserted link to procedure page in chat

<https://aemo.com.au/initiatives/major-programs/wem-reform-program/market-design/wem-reform-procedures>