

## 5MS Readiness Working Group (RWG) Meeting Notes

MEETING: 10  
 DATE: Tuesday 14 April 2020  
 TIME: 10:00 AM – 1:00 PM  
 LOCATION: WebEx

Attendee	Organisation	Location
Greg Minney	AEMO	WebEx / Dial In
Austin Tan	AEMO	WebEx / Dial In
Emily Brodie	AEMO	WebEx / Dial In
Blaine Miner	AEMO	WebEx / Dial In
Anne-Marie McCague	AEMO	WebEx / Dial In
Simon Tu	AEMO	WebEx / Dial In
Tui Grant	AEMO	WebEx / Dial In
Adrian Honey	TasNetworks	WebEx / Dial In
Andrew Lenga	ENGIE	WebEx / Dial In
Andrew Peart	AGL	WebEx / Dial In
Andrew Splatt	AEMC	WebEx / Dial In
Angela Sheehy	Stanwell	WebEx / Dial In
Annemie Kotze	Stanwell	WebEx / Dial In
Audrey Follett	Snowy Hydro	WebEx / Dial In
Cameron Bath	Energy Australia	WebEx / Dial In
Curtis Dora	Essential Energy	WebEx / Dial In
Cindy Matthews	Ergon Energy	WebEx / Dial In
Con Michailides	Ausnet	WebEx / Dial In
David McKenzie	Flow Power	WebEx / Dial In
David Woods	SAPN	WebEx / Dial In
Dino Ou	Endeavour Energy	WebEx / Dial In
Elizabeth Byrne	Stanwell	WebEx / Dial In
Emily Lewis	ERM Power	WebEx / Dial In
Fergus Stuart	Origin	WebEx / Dial In
Gary Butcher	Mondo	WebEx / Dial In
Gavin Douglas	Clean Co	WebEx / Dial In
Greg Szot	CitiPower/Powercor	WebEx / Dial In
Helen Rickards	Essential Energy	WebEx / Dial In
Jeff Roberts	Evo Energy	WebEx / Dial In
Jon Ham	Energy Australia	WebEx / Dial In
Jonathan Briggs	Metering Dynamics	WebEx / Dial In
Justin Stute	Mondo	WebEx / Dial In
Julie Lee	CleanCo	WebEx / Dial In
Kevin Boutchard	Aurora Energy	WebEx / Dial In
Khadka Ramesh	Electranet	WebEx / Dial In
Linda Brackenbury	PLUS ES	WebEx / Dial In
Mark Lee	Momentum Energy	WebEx / Dial In
Mark Reid	Red/Lumo	WebEx / Dial In
Martin Andonovski	Ergon	WebEx / Dial In
Matt Porter	Evoenergy	WebEx / Dial In
Matthew Mullen	Jemena	WebEx / Dial In
Marina Bakh	Jemena	WebEx / Dial In
Mohan Gunatilake	Alinta Energy	WebEx / Dial In
Natasha Rajdev	Alinta Energy	WebEx / Dial In

Nick Gustafsson	Red/Lumo	WebEx / Dial In
Nicole Bright	Energy Queensland	WebEx / Dial In
Owen Self	Stanwell	WebEx / Dial In
Paul Greenwood	Vector	WebEx / Dial In
Prabpreet Calais	AEMC	WebEx / Dial In
Pradeep Metha	Ausgrid	WebEx / Dial In
Raj Aravinthan	Jemena	WebEx / Dial In
Rajiv Balasubramanian	Jemena	WebEx / Dial In
Sabrina Akhter	Flow Power	WebEx / Dial In
Samantha Markham	AER	WebEx / Dial In
Sandra Ho	Snowy Hydro	WebEx / Dial In
Snehal Jogiya	ERM Power	WebEx / Dial In
Shawn Tan	Tango Energy	WebEx / Dial In
Soham Roy Chaudhuri	Alinta Energy	WebEx / Dial In
Stephen Wilson	Hydro Tasmania	WebEx / Dial In
Terry Lodge	Energex	WebEx / Dial In
Tim Lloyd	Essential Energy	WebEx / Dial In
Tejas Vadera	Jemena	WebEx / Dial In
Warran Van Wyk	Intellihub	WebEx / Dial In

Note: some attendees who joined through WebEx and phone may not have been identified. Please advise via email to [5ms@aemo.com.au](mailto:5ms@aemo.com.au) if you attended the meeting but have not been noted above.

## 1.0 Welcome and Introduction – G. Minney (Slides 1 - 2)

Attendees were welcomed to the 10<sup>th</sup> Readiness Working Group (RWG). Attendance was captured.

## 2.0 COVID-19 and proposed 5MS deferral – G. Minney, E. Brodie, B. Miner (Slides 4 - 12)

AEMO noted that a letter<sup>1</sup> from the Market Bodies (AEMO, AEMC and AER) that was sent to the COAG Energy Council on 6 April 2020 to advise them that, in light of the impact of Covid-19, it is proposed:

- Industry be provided with a 12 month delay to five-minute settlement implementation
- The AEMO program will progress internally as planned
- AEMO will prepare a rule change required to give effect to this change and submit to the AEMC

AEMO also noted that a rule change proposal to delay 5MS and GS by 12 months was submitted to the AEMC. The full details of the rule change proposal can be accessed on the AEMC website<sup>2</sup>.

In response to a query from Endeavour Energy, the AEMC noted that the AEMC workshops scheduled to be held this week are expected to be invitational only. AEMO noted that information will be circulated to the RWG when the AEMC releases more information.

In response to a query from Origin and Jemena, the AEMC and AEMO clarified that the industry will be consulted through the usual rule change process, or an expedited process. Timings of the rule change process (including consultation periods) are still to be confirmed.

In response to a query from Stanwell, AEMO acknowledged that there was discussion at the PCF in relation to which party had initiated the letter to COAG, however, no new information was available at this time.

In response to a query from PLUS ES, AEMO confirmed that the proposed rule change does not seek a change to the 1 December 2022 transition date for type 4 and 4A meters to communicate at 5-min granularity. AEMO also noted that even through the rule change proposal did not recommend a change to this date, the AEMC will consider and ultimately determine all applicable dates in the final rule (if made).

AEMO noted that the PCF discussed the details of a risk relating the potential impact of COVID-19 on the industry's and AEMO's 5MS and GS implementation programs. The risk was initially raised at the Executive Forum and will be monitored through the PCF. AEMO also noted that the description of the risk is to be amended, to remove the inference of a loss of productivity due to resources working from home.

AGL commented that the risk of COVID-19 impacting participant programs should be converted to an issue when participants confirm that program timelines are impacted. AGL also noted the aside from monitoring, more should be done to mitigate the risk. A different Participant suggested that the risk should be treated as an issue now, as evidenced by the rule change proposal.

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<sup>1</sup> Letter can be accessed at: <https://www.aer.gov.au/publications/corporate-documents/letter-to-minister-for-energy-and-emissions-reduction-prioritising-implementation-timeframes-for-rule-changes-covid-19>

<sup>2</sup> Full details of the rule change can be accessed at: <https://www.aemc.gov.au/rule-changes/delayed-implementation-five-minute-and-global-settlement>

Stanwell questioned if alternative delay periods are currently being considered (e.g. 3 or 6 month delays). AEMO noted that the PCF had requested for the RWG to assume a 12mth delay when assessing the impacts and risks associated with a proposed delay in the rule commencement dates, in-line with the rule change request. The AEMC noted that alternative proposals will be considered when the rule change request is processed, and participants will have the opportunity to put forward alternative options at the forums organised by the AEMC. The AEMC also clarified that workshops organised this week will be at a higher level and will not focus on in depth discussions regarding the 5MS program. Future workshops focused on 5MS are expected to be organised at a later date.

In response to a query from Energy Queensland, Jemena, Evoenergy and AGL, AEMO noted that a few items regarding the transition approach will have to be reconsidered in light of the rule change request. These items include program governance, metering transition plan activities and industry testing timings. The new transition approach will be considered over the next 1-2 months via in and out of session meetings with the RWG, SWG and TFG.

AEMO presented a few high level assumptions and principles associated to the delay scenario.

In response to a question from Stanwell and Origin, regarding non-5MS initiatives, the AEMC noted that the intention is to still progress the other rule changes, however the implementation timelines of these rule changes might be delayed. However, each project will be assessed on a case-by-case basis.

In response to a query from Endeavour Energy, AEMO noted that the 5MS AEMO internal program will proceed on its current schedule. However if the proposed 12-month delay was adopted, some changes would likely need to occur to align the program with the amended rules e.g. testing windows.

In response to a question from Origin, AEMO clarified that the timing of the metering procedures 'wash-up' would be in-line with the 5MS/GS commencement dates i.e. the wash-up would occur a few months prior to the rules commencing.

In response to a question from Energy Queensland, AEMO noted that Customer Switching schema changes are still currently incorporated with 5MS schema changes. Should associated Rule commencement dates change, these timings and approach would have to be reconsidered.

In response to a question from Stanwell, AEMO noted that any required changes to the Metrology procedures, or any other metering procedures, would be managed by the ERCF.

In response to a request from Stanwell, AEMO noted that it will consider providing participants with a list of frequently asked questions.

Jemena requested clarification from AEMO on the other rule changes mentioned at the PCF, AEMO clarified that rule changes are the remit of the AEMC. The AEMC noted that these rule changes may or may not be impacted and any impacts are being considered by the AEMC. The AEMC also noted that the rule change proposal focuses only on 5MS and GS, not any other rule changes.

AEMO noted that the RWG has a responsibility to provide advice to the PCF as soon as possible regarding the transition/readiness implications associated with the proposed 12-month 5MS/GS delay. For example, each activity in the MTP will need to be assessed and considered in light of the proposed rule change.

In response to a query from Energy Queensland, AEMO noted that the RWG's assessment of the potential impacts of the proposed rule change on program activities may be used by participants, should they choose to, when providing submissions to the AEMC during the rule change process.

The AEMC explained that under:

- an expedited rule change, the total timeframe is typically eight weeks from the date the consultation paper is released to the Final Determination being published, four weeks for consultation and four weeks to finalise the final determination/rule.
- a standard rule change process, there would be two periods of consultation of at least four weeks each, including additional time to process feedback and develop the final rule.

The AEMC noted that at the moment there is no target date for when they will release the consultation paper associated with the proposed rule change.

In response to a query from Stanwell, AEMO recommended that the RWG use the existing Readiness artefacts as a basis for developing a straw person transition scenario.

In response to a dependency-related query to from Stanwell, AEMO noted that the overall transition and go-live strategies and associated transition plans already consider program dependencies, and can be leveraged to develop the strawperson transition approach.

AEMO proposed that the intended agenda items of: Readiness Milestones and MTP update, Metering Procedures Updates and the Industry Readiness Update be deemed 'as read' to allow the RWG additional time to discuss and document key assumptions, principles, risks and considerations associated to the proposed 12-month delay scenario.

**Action 10.2.1:** AEMO to circulate further information on the AEMC's workshops relating to COVID-19.

### **3.0 Industry testing update –Tui Grant (Slides 27 - 29)**

AEMO presented an update on industry testing, noting that AEMO is still delivering its MDM, settlements and dispatch systems as per the current schedule. The testing team will continue to prepare test plans for the MDM that will be in pre-production from mid-October, and go-live on 7 December 2020. AEMO noted that the MDM solution will go-live with the functionalities as planned, including the ability to receive files over API or FTP, and the ability to receive NEM 12 and NEM 13 files. AEMO will test as-is functionality, then conduct market trails on 5 -minute specific functionality closer to the 5MS go-live date.

AEMO also noted that since the solution is going to pre-production early, the industry will be able to do end-to-end testing of their own solutions and conduct bi-lateral testing early.

Origin noted that any AEMO deployments that impact the industry will require industry resources, which will increase industry costs.

In response to a query from Energy Queensland, AEMO agreed that further consideration is required regarding validation rules given that the transition window could be potentially be longer.

In response to a query from Stanwell, AEMO clarified that that reallocations is already live in production and will remain deployed. If there is a delay to the market commencement date, the software will be updated appropriately.

AEMO clarified that the currently plan is for existing AEMO system deployment timelines to go ahead, and this will be captured as an assumption in developing strawperson scenarios of the proposed 12-month delay. Origin noted that if participants are expected to have program resources available to accommodate any system deployments then this will incur additional costs and will not be in-line with the intention of the proposed rule change. AEMO agreed that that would be an item that will have to be considered.

#### **4.0 Readiness reporting update – G. Minney, A. Tan (Slides 54 - 56)**

AEMO provided an overview on the updates to round 2 of readiness reporting, noting that there are a few new survey questions and that there will be improvements to the presentation of the readiness report.

AEMO also presented, and invited RWG feedback on, the calculation methodology for industry participation rates in readiness reporting.

AEMO requested that the RWG respond to the readiness survey assuming no change to the existing market commencement timeframes.

**Action 10.4.1:** RWG to provide feedback on the calculation methodology for industry participation rates in readiness reporting.

#### **5.0 5MS delay high level assumptions, considerations and risks – G. Minney, E. Brodie, B. Miner**

AEMO captured assumptions, considerations and risks associated to the proposed 12mth delay scenario. These were captured in separate slides and circulated to the RWG the day after the meeting.

AEMO presented its proposed approach to developing the (proposed) 12-month delay strawperson, including testing and the proposed approach to a potential deferred metering transition, noting the RWG and TFG will reconvene over the next 2-3 weeks to consider the content in more detail.

#### **6.0 Forward meeting plan and general questions – G. Minney (Slides 56 - 60)**

Attendees were thanked for their attendance and advised of future in-session RWG meetings:

- Thursday 14 May 2020
- Wednesday 10 June 2020

Next Systems Working group:

- Wednesday 20 May 2020
- Wednesday 17 June 2020

Next Program Consultative Forum

- Tuesday 5 May 2020
- Tuesday 2 June 2020

Next Executive Forum

- Thursday 11 June 2020

Further information on the 5MS program, and a calendar of all meeting and forum dates can be found via the following link: <http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement>.

Item	Topic	Action required	Responsible	By
1.1.1	Welcome and Introduction	Participants to confirm to <a href="mailto:5MS@aemo.com.au">5MS@aemo.com.au</a> if required to be added to the RWG distribution list.	RWG	Completed
1.8.1	Market Readiness Strategy	RWG to provide feedback to AEMO on indicative timelines presented.	RWG	Completed
1.9.1	Interim Readiness Reporting	AEMO to release proposed interim reporting commencement dates to RWG.	AEMO	Completed
1.9.2	Interim Readiness Reporting	AEMO to provide the RWG with a draft interim readiness report structure for comment.	AEMO	Completed
1.10.1	Forward Meeting Plan	RWG members to provide proposed content/topic areas for upcoming RWG meetings.	RWG	Completed
2.4.1	Transition Timeline	AEMO to align dates and labelling of MDFF format data transition on staged transition timeline.	AEMO	Completed
2.4.2	Transition Timeline	AEMO to reflect UFE publication milestone of 1 July 2021 on staged transition timeline.	AEMO	Completed
2.4.3	Transition Strategy	RWG members to provide feedback on the presented transition approach at RWG 2 in-line with participant's own implementation programs.	RWG	Completed
2.5.1	UFE publication	AEMO to confirm if and when the draft report on UFE publication will be made available to participants.	AEMO	Completed
2.7.1	Readiness Deliverables	RWG to provide feedback on approach to merge Industry Test and Market Trial Strategy deliverables.	RWG	Completed
2.7.2	Readiness Deliverables	RWG to provide feedback on approach to delay engagement on the Accreditation Update approach from August to October.	RWG	Completed
2.8.1	RWG Content	RWG to provide feedback on proposed content and suggest content for future RWGs.	RWG	Completed

2.8.2	Readiness Deliverables	AEMO to consolidate and discuss Readiness Workstream deliverables with the RWG, including the draft and final dates for each deliverable.	AEMO	Completed
2.9.1	Vendor Engagement	RWG to provide feedback on areas that AEMO could consider further vendor engagements, including approach, areas of significance and timing.	RWG	Completed
2.9.2	Readiness Risks	RWG to provide feedback on the proposed approach to managing readiness issues and risks.	RWG	Completed
3.4.1	Software drops	AEMO to provide RWG with definitions of what is included in the package content of each software drop.	AEMO	Completed
3.5.1	Readiness Risks	AEMO to refine approach to managing industry risks and issues identified by the RWG.	AEMO	Completed
3.5.2	Readiness Risks	AEMO to align cadence of RWG readiness risk assessment sessions with the quarterly PCF risk assessment sessions.	AEMO	Completed
3.5.3	Readiness Risks	AEMO to consider updating R11 in the industry risk register to reflect deliverables that are sequenced over time instead focusing on the final 5MS go-live date.	AEMO	Completed
3.7.1	Focus Groups	RWG to provide suggestions for focus groups and/or topic areas.	RWG	Completed
4.2.1	Reconciliation Support Workshop	AEMO to consider combining the Settlement Managers Working Group with the reconciliation support workshop.	AEMO	Completed
4.4.1	Readiness Reporting	AEMO to provide more information on how readiness reporting can be 'actionable'.	AEMO	Completed
4.5.1	Contingency Arrangements	AEMO to consider including a 'shadow box' (or similar indication) for contingency arrangements on the transition Gantt chart.	AEMO	Completed
4.5.2	Contingency Arrangements	AEMO to consider scheduling arrangements for developing agreed contingency scenarios and incorporation into transition plans	AEMO	Completed
4.6.1	Readiness Risks	AEMO to consider proposing a new risk in the industry risk register to manage any risks arising from transitional requirements not defined in procedures.	AEMO	Completed

4.6.2	BSB working group	AEMO to include B2B working group debriefs on the RWG forward agenda when appropriate.	AEMO	Completed
4.6.3	Metering Transition	AEMO to confirm Rule requirements relating to 5 minute metering data (delivery and reception) pre 1 July 2021.	AEMO	Completed
4.6.4	Readiness Risks	AEMO to propose a new risk in the industry risk register to manage risk arising from the ambiguity of 5 minute responsibilities pre-1 July 2021.	AEMO	Completed
4.7.1	Readiness Reporting	RWG to provide feedback on the proposed structure of the industry readiness reporting plan.	RWG	Completed
5.6.1	B2M APIs, Reallocation APIs	RWG members to provide indication of their intent and timing (if known) to implement Reallocation APIs or B2M APIs as components of their programs	RWG	Completed
5.6.2	Focus Groups	RWG to provide feedback on timing, duration, format and requests for pre-meeting materials for the RWG risks and issues workshop, and industry testing and cutover focus groups.	RWG	Completed
5.8.1	MSP accreditation plan	RWG to provide feedback on the proposed MSP accreditation approach.	RWG	Completed
5.9.1	Readiness documents	AEMO to develop a consolidated view of the engagement timelines for all readiness documents.	AEMO	Completed
6.1.1	Contingency Planning	AEMO to categorise the contingency strategies to reflect the pre-existing risks and actions.	AEMO	Completed
7.5.1	Readiness Reporting	RWG to provide feedback on the Industry readiness reporting proposed approaches	RWG	Completed
7.8.1	B2M API	RWG to provide feedback on the impact to their organisations programs if the B2M API cutover milestone shifts.	RWG	Completed
8.4.1	Workstream update	AEMO to organise open forum for Staging Environment over WebEx in March	AEMO	March
8.4.2	Metering Procedures	AEMO to provide additional details regarding the “Wash-up” consolidation of metering procedure changes	AEMO	Completed

8.5.1	Metering Transition Plan	AEMO to schedule the next Transition Focus Group	AEMO	Completed
8.5.2	Metering Transition Plan	RWG to suggest agenda items for discussion at the TFG, including any queries relating to the Metering Transition Plan	RWG	Completed
8.9.1	Forward meeting plan and general questions	AEMO to consider creating a dedicated section in the RWG pack to facilitate the flow of information between TFG and RWG.	AEMO	Completed
8.9.2	Forward meeting plan and general questions	AEMO to propose a new risk to the Industry Risks and Issues Register regarding the uncertainty on how Metering Transition Plan activities will be implemented, in particular standing data updates.	AEMO	Thu 5 Mar
9.3.1	Industry readiness reporting	AEMO to consider adding MC as a new Participant Type for readiness reporting purposes	AEMO	Tue 14 Apr
9.4.1	Industry testing	RWG to inform AEMO if they are able to assist with shake out of the latest settlements deployment into the staging environment	RWG	Fri 27 Mar
9.4.2	Industry testing	AEMO to organise industry testing Q&A session	AEMO	Completed
9.4.3	Industry testing	AEMO to update table on industry testing, on RWG 9 slide 16.	AEMO	Tue 14 Apr
9.7.1:	Transition focus group debrief	Ausnet to raise ICF through the ERCF regarding the potential removal of the RegisterID field from the CATS CRI table	Ausnet	Tue 14 Apr
9.7.2:	LR and FRMP fields	AEMO to invite SWG rep to the next RWG or TFG to discuss potential approaches to updating the applicable LR and FRMP fields to GLOPOOL	AEMO	Tue 14 Apr
9.8.1	Industry readiness reporting	AEMO to organise Q&A session on interpretation of readiness reporting round 1 results	AEMO	Completed
9.8.2	Industry readiness reporting	RWG to provide explanation when a n/a response is provided for MTP activities.	RWG	Tue 14 Apr
9.8.3	Industry readiness reporting	TFG to update MTP sub-category/activity descriptions to ensure there is enough detail to report against (e.g. A39)	TFG	Tue 14 Apr

9.8.4	Industry readiness reporting	AEMO to follow up with participants that are yet to complete MTP activities by transition end date	AEMO	Tue 14 Apr
9.8.5	Industry readiness reporting	RWG to raise any further risk and issues for discussion at the next risks and issues workshop in April	RWG	Fri 27 Mar
9.8.6	Industry readiness reporting	RWG to provide feedback regarding the presentation approach and format of readiness reporting	RWG	Fri 27 Mar
9.8.7	Industry readiness reporting	RWG to provide feedback regarding extent that AEMO should make individual survey responses transparent to the industry	RWG	Fri 27 Mar
9.8.8	Industry readiness reporting	RWG to provide feedback regarding any other changes to the readiness report/plan	RWG	Fri 27 Mar
9.8.9	Industry readiness reporting	AEMO to include in readiness report if critical mass for each participant type is on track	AEMO	Tue 14 Apr
9.9.1	Contingency plan	RWG to provide feedback on response end date on second Contingency draft plan.	RWG	Fri 27 Mar
9.11.1	RWG Content	RWG to provide feedback on proposed content and suggest content for future RWGs.	RWG	Fri 27 Mar
10.2.1	5MS proposed rule change	AEMO to circulate further information on AEMC workshops related to COVID-19	AEMO	When possible
10.4.1	Industry readiness reporting	RWG to provide feedback on the calculation methodology for industry participation rates in readiness reporting.	RWG	Fri 24 Apr