

## 5MS and GS Readiness Working Group – Meeting Notes

MEETING: Readiness Working Group  
 DATE: Tuesday, 13 October 2020  
 TIME: 10:00 AM – 11:30 AM  
 LOCATION: WebEx

### Attendees

Attendee	Organisation	Location
Greg Minney	AEMO (Chair)	Remote - WebEx
Alex Alexander	AEMO	Remote - WebEx
Anne-Marie McCague	AEMO	Remote - WebEx
Austin Tan	AEMO	Remote - WebEx
Blaine Miner	AEMO	Remote - WebEx
Carol Bosnjak	AEMO	Remote - WebEx
Elizabeth Bernhardt	AEMO	Remote - WebEx
Graeme Windley	AEMO	Remote - WebEx
Ian Devaney	AEMO	Remote - WebEx
Jim Agelopoulos	AEMO	Remote - WebEx
Mark Hillaby	AEMO	Remote - WebEx
Paul Lyttle	AEMO	Remote - WebEx
Simon Tu	AEMO	Remote - WebEx
Tui Grant	AEMO	Remote - WebEx
Adrian Honey	TasNetworks	Remote - WebEx
Alex Polonetskiy	Ausgrid	Remote - WebEx
Andrew Lenga	ENGIE	Remote - WebEx
Andrew Peart	AGL Energy	Remote - WebEx
Andrew Wilkins	SA Water	Remote - WebEx
Annett Reitmann	AGL Energy	Remote - WebEx
Arif Syarifuddin	Powercor	Remote - WebEx
Ben Johnson	ERM Power	Remote - WebEx
Brendan Charles	Aurora Energy	Remote - WebEx
Chris Leffler	AGL Energy	Remote - WebEx
Chris Pratt	Alinta Energy	Remote - WebEx
Christophe Bechia	Red Energy	Remote - WebEx
Cindy Matthews	Ergon Energy	Remote - WebEx
Damien Banky	AGL	Remote - WebEx
Dan Hiller	Meridian Energy	Remote - WebEx
David McKenzie	Flow Power	Remote - WebEx
David Woods	SAPN	Remote - WebEx
Dickson Abeydeera	Jemena	Remote - WebEx

Dino Ou	Endeavour Energy	Remote - WebEx
Eugene Mulipola	Flow Power	Remote - WebEx
Fergus Stuart	Origin Energy	Remote - WebEx
Gail Mitchell	AGL Energy	Remote - WebEx
Grant Ross	Alinta Energy	Remote - WebEx
Greg Szot	CitiPower / Powercor	Remote - WebEx
Helen Rickards	Essential Energy	Remote - WebEx
Ingrid Farah	Ergon Retail	Remote - WebEx
James Hutt	Energy One	Remote - WebEx
Jaya Mukherjee	Alinta Energy	Remote - WebEx
Jayendra	Insight Power	Remote - WebEx
Jeff Roberts	Evoenergy	Remote - WebEx
Jenny Mastello	Energy Queensland	Remote - WebEx
John Vendel	Energy Australia	Remote - WebEx
Jon Ham	Energy Australia	Remote - WebEx
Joseph Giddings	Energy One	Remote - WebEx
Joseph Lyttleton	Jemena	Remote - WebEx
Justin Stute	Mondo	Remote - WebEx
Kamiran Pillay	SA Water	Remote - WebEx
Karan Mengi	EnergyAustralia	Remote - WebEx
Karel Mallinson	Powerlink	Remote - WebEx
Kelly Mason	Ausgrid	Remote - WebEx
Linda Brackenbury	PLUS ES	Remote - WebEx
Marina Bakh	Jemena	Remote - WebEx
Mark Reid	Red / Lumo	Remote - WebEx
Matthew Mullen	Jemena	Remote - WebEx
Mahdi Maleki	AusNet Services	Remote - WebEx
Nick Gustafsson	Red Energy	Remote - WebEx
Nicole Bright	Energy Queensland	Remote - WebEx
Paul Carpenter	AGL	Remote - WebEx
Peter Gilligan	Ausgrid	Remote - WebEx
Rajiv Balasubramanian	Jemena	Remote - WebEx
Ramesh Khadka	Electranet	Remote - WebEx
Robert Larkin	SA Water	Remote - WebEx
Sandra Ho	Snowy Hydro	Remote - WebEx
Soham Roy Chaudhuri	Alinta Energy	Remote - WebEx
Sreeni Srirangam	Metering Dynamics	Remote - WebEx
Steve Blair	Essential Energy	Remote - WebEx
Steve Smith	Energex	Remote - WebEx
Subhra Sekhar Kar	AGL Energy	Remote - WebEx
Suraj	IntelliHUB	Remote - WebEx
Tilin Yi	EnergyAustralia	Remote - WebEx

Tejas Vadera	Jemena	Remote - WebEx
Victor Sanchez	Infigen	Remote - WebEx
Warren Van Wyk	IntelliHUB	Remote - WebEx
Wayne Turner	Ausgrid	Remote - WebEx
Wilmund Foong	United Energy	Remote - WebEx
Zaved Patel	Alinta Energy	Remote - WebEx
Zulfi Syed	n/a	Remote - WebEx

## 1. Welcome, Introduction, Attendance and Apologies – G. Minney (slide 1-5)

AEMO noted that the meeting was being recorded for the purposes of preparing meeting notes and requested for dial-in attendees to email [5ms@aemo.com.au](mailto:5ms@aemo.com.au) for inclusion on the attendees list.

## 2. Minutes and Actions from Previous Meeting – A. McCague (slide 6 - 7)

The actions from meeting RWG #15 have been reviewed and updated. Please refer to the meeting pack and list below for more details.

## 3. 5MS Program Update – G. Minney (slide 8 – 12)

AEMO provided an update on the AEMO program timeline, noting that all the upcoming milestones are on track.

In regard the proposed shift in the deployment date for the Settlement platform, AEMO noted that the settlements system will involve a like-for-like deployment, and is not expected to impact participant systems. AEMO invites feedback from the RWG by October 23

AEMO noted that the integrated timeline for Wholesale Demand Response (WDR) and Customer Switching was presented at the PCF on October 1. More information is available on the PCF webpage<sup>1</sup>.

## 4. Procedures Update – S. Tu (slide 13 - 15)

AEMO presented an update on the procedures related to 5MS/GS, noting that there is a new item relating to an update to the supporting document 'Understanding Load Profiles Published from MSATS'. Changes include update to include 5-minute profiles, detail profile names by network business names, and provides sample outputs of key reports. Consultation on these changes have commenced together with the package of Retail procedures under consultation for Wholesale Demand Response<sup>2</sup>.

More information can be found on slides 14 and 15 of the meeting pack.

## 5. Testing Update – T. Grant (16 - 18)

AEMO provided an update on the defects identified in the 5MS Staging Environment, noting that most of the issues raised last month are now resolved. More information can be found on slide 17 of the meeting pack.

AEMO requested that all MDPs ensure their current production MTMD files are compliant prior to go-live (e.g. date time stamp), noting that the new retail platform will reject any non-compliant transactions as per the NER.

AEMO noted that the industry test period for the Dispatch and Bidding solution will commence on 29 November 2020. AEMO noted that testing of transition state functionality (30-min or six 5-min bids that are equal) can do so in the pre-prod environment, while end state functionality can be tested in the staging environment. More information will be provided at the ITWG on 21 October 2020.

AEMO noted that a session has been organised with participants on 20 October 2020 to discuss test cases for the retail platform. Subsequent discussions will also be conducted with the ITWG

<sup>1</sup> Available at: <https://www.aemo.com.au/consultations/industry-forums-and-working-groups/list-of-industry-forums-and-working-groups/5ms-program-consultative-forum-pcf>

<sup>2</sup> Available at: <https://aemo.com.au/consultations/current-and-closed-consultations/retail-procedures-wholesale-demand-response>

In response to participant queries, AEMO noted that:

- Performance issues that have emerged in the dispatch and bidding staging environment were due to the lower hardware specifications of the environment, and are not expected in the pre-prod environment.
- Weekly updates will be provided to RWG members through email.
- Participants can receive support on testing through the AEMO support Hub.
- Information from the bidding platform will not flow through to settlement reports.
- MDP can send through MTRD transactions in 5-minute format now, and can test NEM 12 and NEM 13 file delivery to AEMO. However any settlement runs generated will be in 30-minute mode until 5-minute functionality is deployed into staging.

#### **6. Dispatch / Bidding Update – I. Devaney (slide 19 – 21)**

AEMO noted that the bidding and dispatch pre-production environment is expected to be available on 29 November 2020 with features supporting the bidding transition phase. More details are available on slides 20 meeting pack.

#### **7. Bidding & Dispatch Go-Live Plan – G. Minney (slide 23 – 26)**

AEMO presented the background, proposed scope and principles of the bidding and dispatch go-live plan. AEMO noted that a draft approach will be presented at the next RWG.

#### **8. Settlements Update – M. Hillaby (slide 27 - 30)**

AEMO presented the timelines and supported functionalities, associated to the Settlements platform, for Staging, Pre-production and Production environments. More details are available on slides 43 and 44 of the meeting pack.

AEMO also noted that the following activities are now underway:

- SIT & UAT testing with internal teams
- Certification activities
- Dress rehearsal for cutover activities

#### **9. Retail / Metering readiness – J. Agelopoulos (slides 31 – 33)**

AEMO noted that the retail workstream is on track, with no changes to the previously communicated timelines. AEMO advised that the deployment timing for Global Settlements changes is still under consideration, and the RWG will be informed when a confirmed date has been finalised.

In response to participant queries, AEMO noted that:

- The implementation approach, timeframes and testing approach on when Global Settlement changes will be deployed into the retail staging environment is still under consideration. AEMO will provide more details on the approach and timeframe to the RWG when available.
- AEMO will confirm considerations for the provision of Tier 2 accumulation meter data to LRs post GS go live
- There will be no outage in the staging environment during the October deployment

AEMO noted that the MSATS user guide will be released on 15 October 2020.

**Action 16.9.1:** AEMO to provide RWG with implementation approach, timeframes and testing approach of Global Settlement changes (e.g. LR to GLOOPOOL transition).

**Action 16.9.2:** AEMO will confirm considerations for the provision of Tier 2 accumulation meter data to LRs post GS go live

#### **10. RM20 PPS Report Simplification – P. Lyttle** (slides 34 – 35)

AEMO noted that a simplification to the RM20 PPS Report was proposed at the previous RWG, with five participants providing feedback with none raising any issues. AEMO noted that this change will be implemented with the MDM release.

AEMO noted that the testing of RM related UFE reporting may have identified an issue with the 'local area' field on the R39 schema and will confirm at the next RWG if a further update to the schema will be required.

#### **11. Transition Focus Group Update – B. Miner, P. Lyttle** (slide 36 - 46)

AEMO noted the agenda discussed at the TFG to the RWG, which included preliminary analysis of meter rollout plans and MTP related CATS transactions and Notifications.

In response to a query from a participant on SAMPLE meter upgrade requirements, AEMO clarified that:

- 15 and 30-minute sample metering data would be converted to 5-minute by the uniform allocation method (divide by 3 or divide by 6) as detailed in section 12 of Metrology Part B.
- New and replacement sample meters installed after 1 December 2018 will need to be capable of producing 5-minute metering data and will be required to produce 5-minute metering data by 1 December 2022. This assumes that all sample meters are type 4 as required in Metrology Procedure Part B Section 11. However, participants are encouraged to send 5-minute sample metering data after the retail platform go-live to test their 5-minute capability with low meter volumes.

In response to a participant query, AEMO confirmed that the TFG will now be scheduled monthly and placeholders will be sent to participants shortly. A separate focus group session will be organised to discuss the potential system impacts of the anticipated volume of CATS CR transactions and notifications over the next 2yrs.

AEMO also noted that the TFG was provided with information on cross boundary supply categories and their associated conditions and requirements. AEMO noted that a draft document titled 'Cross Boundary Supply Guidelines' is expected to be available at the end of October. More information is available on slides 42 to 46 of the meeting pack.

**Action 16.11.1:** AEMO to organise a separate focus group session to discuss the potential system impacts associated to the anticipated volume of MTP related CATS CR transactions and notifications.

#### **12. Retail Platform Go-live Plan – G. Minney** (slide 52 - 55)

AEMO noted that the Retail platform go-live plan has now been published, and invited participants to provide feedback before Friday 23 October 2020.

AEMO reminded the RWG that the Cutover Focus Group (CFG) will be going ahead on 16 October 2020, where the contents of the retail platform go-live plan will be discussed.

**Action 16.12.1:** RWG to provide feedback on the Retail platform industry go-live plan

#### **13. Forward Plan and Other Business – G. Minney** (slide 56 - 60)

AEMO confirmed that cross-boundary meters have been deemed non-essential for 5MS and GS market starts, given that System Load Profiles will be calculated without cross boundary metering data. However, cross boundary metering data not delivering in 5-minute will impact the accuracy of UFE calculation. AEMO

noted that the Contingency Plan will be updated to reflect the definition used in the case of essential meters for market start.

In response to a participant query, AEMO noted that it will make a recommendation to the PCF regarding whether 5MS readiness reporting should incorporate considerations involving customer switching and WDR based on feedback from those programs regarding their readiness reporting plans.

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

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>.

**Action 16.13.1:** AEMO to make a recommendation to the PCF regarding if 5MS readiness reporting should incorporate considerations involving customer switching and WDR.

Item	Topic	Action required	Responsible	By
11.3.1	Readiness Reporting	AEMO to consider providing additional guidance alongside readiness reporting survey questions	AEMO	Completed
11.3.2	Readiness Reporting	AEMO to include latest MTP with readiness reporting survey	AEMO	Completed
11.3.3	Readiness Reporting	AEMO and RWG to consider alternative ways of communicating readiness reporting survey results	AEMO / RWG	Completed
11.4.1	Proposed milestone changes	AEMO to update charts on proposed AEMO system deployment milestone changes	AEMO	Completed
11.4.2	Proposed milestone changes	AEMO to consider extending the 30 minute settlement trial so that it can be commenced before December 2020	AEMO	Completed
11.4.3	Proposed milestone changes	AEMO to investigate any impacts on Recipient created tax invoices (RCTI) and provide feedback to or seek further info from the RWG	AEMO	Completed
11.4.4	Proposed milestone changes	RWG to provide feedback on impact of settlements 'like-for-like' delivery, including impacts on RM 16 and RM 27	RWG	Completed
11.4.5	Proposed milestone changes	AEMO to confirm if there are any changes to the format of settlement reports that are used by participants for settlement reconciliation purposes (e.g. RM 16 and RM27)	AEMO	Completed
11.4.6	Proposed milestone changes	AEMO to update table in slide 27 to clarify that MDFF acceptance relates to metering data files (not settlement files)	AEMO	Completed
11.4.7	Proposed milestone changes	AEMO to provide explanation of how 5-min bilateral testing will be supported	AEMO	Completed
11.4.8	Proposed milestone changes	RWG to provide feedback in response template on impact of MDM milestone change and proposed deployment milestone changes for dispatch and settlements	RWG	Completed
11.6.1	Proposed 12-month deferral	AEMO to update Gantt to reflect NCONUML datastream activation	AEMO	Completed
11.6.2	Proposed 12-month deferral	RWG to provide information on how AEMO would support a multi-speed transition (some participants continuing to current timeline, some participants deferring to proposed timeline)	RWG	Completed
11.6.3	Proposed 12-month deferral	AEMO capture and manage the risk of a multi-speed transition (some participants continuing to current timeline, some participants deferring to proposed timeline) in the 5MS industry risks and issues register	AEMO	Completed



11.6.4	Proposed 12-month deferral	AEMO to consolidate multi-speed transition feedback and provide to RWG	AEMO	Completed
11.6.5	Proposed 12-month deferral	AEMO to provide clarification on the impact to the MMS data model version 5 under the proposed 12-month deferral scenario	AEMO	Wed 3 Jun
11.6.6	Proposed 12-month deferral	RWG to provide feedback in response template on proposed transition and testing approach under the proposed 12-month deferral scenario	RWG	Completed
11.7.1	“Minimum criteria” and 5MS go/no-go decisions	RWG to provide feedback on proposed ‘minimum criteria’ for commencement	RWG	Completed
11.7.2	“Minimum criteria” and 5MS go/no-go decisions	AEMO to publish final contingency plan, considering RWG feedback on ‘minimum criteria’	AEMO	Completed
11.8.1	Bidding transition plan	RWG to provide feedback on bidding transition approach	RWG	Completed
11.8.2	Bidding transition plan	AEMO to confirm whether FCAS bidding is out of scope	AEMO	Completed
11.8.3	Bidding transition plan	AEMO to discuss bidding transition approach with the Dispatch Focus Group	AEMO	Completed
12.6.1	Working groups	RWG to provide feedback on proposal for RWG to be expanded to include SWG members, and for the working group to take an end-to-end systems and readiness view.	RWG	Completed
12.7.1	Industry testing	AEMO to update industry testing slides with clarifications	AEMO	Completed
12.7.2	Industry testing	AEMO to provide more details on the testing scope (e.g. test objective, key participants, key scenarios)	AEMO	Completed
12.7.3	Industry testing	RWG to provide feedback on their testing requirements for Dispatch, Settlement and Retail systems in pre-production	RWG	Completed
12.8.1	Readiness reporting	RWG to provide feedback on the readiness reporting approach if there is a delay to the 5MS and GS commencement dates	RWG	Completed
12.8.2	Readiness reporting	RWG to provide feedback on the proposed bar chart format for readiness reporting results	RWG	Completed
12.8.3	Readiness reporting	RWG to provide suggestions on any changes to the readiness reporting plan	RWG	Completed

12.8.4	Readiness reporting	AEMO and the RWG to consider how readiness reporting results can be used to consider if the industry is tracking to plan for 5MS and GS	RWG / AEMO	Completed
14.5.1	Regulatory Roadmap	AEMO to circulate regulatory roadmap workshop slide pack to RWG	AEMO	Completed
14.6.1	Retail Procedures	AEMO to add details of any aseXML schema impacts to the AEMO Retail Systems Impact for a Procedure issue.	AEMO	Completed
14.7.1	Transition Risks	RWG to consider their organisation's exposure to the risk of a 'big bang' delivery of 5min metering data in Production i.e. waiting until 5MS commencement to deliver/receive 5min metering data for the first time in Production.	RWG	Completed
14.7.2	Readiness Reporting	RWG to provide feedback on proposed approach to track if industry is on track for 5MS and GS commencements	RWG	Completed
14.11.1	Transition Approach	AEMO to include transition diagrams in the functionality matrix document	AEMO	Completed
14.12.1	Metering Transition Plan	RWG to provide feedback on the proposed changes to the MTP, and inform AEMO if a more restrictive or flexible transition period is preferred for MSATs Standing Data Creation and Maintenance activities	RWG	Completed
14.13.1	RM Reports	AEMO to confirm if Participants will receive push reports if there is no data missing	AEMO	Completed
14.13.2	GLOPOOL Updates	AEMO to confirm the timeframes and the approach for the transition of GLOPOOL	AEMO	Mon 14 Sep
14.14.1	Retail Platform Go-live Plan	RWG to provide feedback on the proposed high level structure of the Retail platform go-live plan	RWG	Completed
15.3.1	AEMO Data Model	RWG to identify existing wholesale representative for the Market Systems User Group (MSUG) and contact 5MS mailbox if there is no existing representative	RWG	Completed
15.3.2	Settlements Platform	RWG to provide feedback on the proposed settlements platform go-live date of 19 April 2021, including any impacts to participants' programs, testing requirements, and any suggested mitigations	RWG	Completed
15.7.1	Testing	RWG to inform AEMO if their organisation is able to assist AEMO with preparing the testing approach, or executing formal invitation testing of the retail platform	RWG	Completed

15.7.2	Testing	RWG to provide a list and description of any required testing that cannot be carried out in 5MS Staging, is unacceptably complicated by the requirement to re-point from one environment to another, and cannot wait until the functionality has been deployed into the pre-production environment	RWG	Completed
15.7.3	Testing	AEMO to update the Industry Risks and Issues Register with the mitigation measures agreed at the RWG	AEMO	Completed
15.12.1	RM20 Report	RWG to provide feedback on proposed simplification to the RM20 PPS Report	RWG	Completed
15.13.1	Cutover Focus Group	RWG to nominate Cutover Focus Group members	RWG	Completed
16.9.1	Global Settlement	AEMO to provide RWG with implementation approach, timeframes and testing approach of Global Settlement changes (e.g. LR to GLOOPOOL transition).	AEMO	Mon 16 Nov
16.9.2	Global Settlement	AEMO will confirm considerations for the provision of Tier 2 accumulation meter data to LRs post GS go live	AEMO	Mon 16 Nov
16.11.1	Transition Focus Group	AEMO to organise a separate focus group session to discuss the potential system impacts associated to the anticipated volume of MTP related CATS CR transactions and notifications.	AEMO	Mon 16 Nov
16.12.1	Retail platform industry go-live plan	RWG to provide feedback on the Retail platform industry go-live plan	RWG	Fri 23 Oct
16.13.1	Readiness reporting	AEMO to make a recommendation to the PCF regarding if 5MS readiness reporting should incorporate considerations involving customer switching and WDR.	AEMO	Thu 5 Nov