

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

MEETING: Readiness Working Group  
 DATE: Monday, 14 December 2020  
 TIME: 10:00 AM – 12:00 PM  
 LOCATION: WebEx

### Attendees

Attendee	Organisation	Location
Greg Minney	AEMO (Chair)	Remote - WebEx
Anne-Marie McCague	AEMO	Remote - WebEx
Austin Tan	AEMO	Remote - WebEx
Blaine Miner	AEMO	Remote - WebEx
Carol Bosnjak	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
Andrew Steer	Gentrack	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
Audrey Follett	Snowy Hydro	Remote - WebEx
Ben Johnson	ERM Power	Remote - WebEx
Brendan Twiddy	Origin Energy	Remote - WebEx
Chantal Wright	Origin Energy	Remote - WebEx
Chris Leffler	AGL Energy	Remote - WebEx
Christophe Bechia	Red Energy	Remote - WebEx
Con Michailides	AusNet Services	Remote - WebEx
Craig Eadie	Aurora Energy	Remote - WebEx
Damien Banky	AGL	Remote - WebEx
Dan Hiller	Meridian Energy	Remote - WebEx
Dannii Upham	Energex	Remote - WebEx
David McKenzie	Flow Power	Remote - WebEx

David Rundell	Alcoa	Remote - WebEx
David Woods	SAPN	Remote - WebEx
Dean Knight	Powerlink	Remote - WebEx
Dino Ou	Endeavour Energy	Remote - WebEx
Eileen Hays	Snowy Hydro	Remote - WebEx
Elizabeth Keogh	Stanwell	Remote - WebEx
Fergus Stuart	Origin Energy	Remote - WebEx
Gail Mitchell	AGL Energy	Remote - WebEx
Greg Fawcett	ENGIE	Remote - WebEx
Grant Ross	Alinta Energy	Remote - WebEx
Greg Szot	CitiPower / Powercor	Remote - WebEx
Helen Rickards	Essential Energy	Remote - WebEx
Helen Vassos	PLUS ES	Remote - WebEx
Ingrid Farah	Ergon Retail	Remote - WebEx
Jack Friel	United Energy	Remote - WebEx
Jaya Mukherjee	Alinta Energy	Remote - WebEx
Jayendra	Insight Power	Remote - WebEx
Jeff Roberts	Evoenergy	Remote - WebEx
Jenny Mastello	Energy Queensland	Remote - WebEx
Joe Milazzo	Evo Energy	Remote - WebEx
John Weston	TBC	Remote - WebEx
Jon Ham	Energy Australia	Remote - WebEx
Karan Mengi	EnergyAustralia	Remote - WebEx
Karel Mallinson	Powerlink	Remote - WebEx
Keshava	Alinta Energy	Remote - WebEx
Kevin Boutchard	Aurora Energy	Remote - WebEx
Luke Garrett	Evoenergy	Remote - WebEx
Mac Leung	Nucleus3	Remote - WebEx
Marina Bakh	Jemena	Remote - WebEx
Mark Lee	Momentum Energy	Remote - WebEx
Mark Reid	Red / Lumo	Remote - WebEx
Martin Andonovski	Energy Queensland	Remote - WebEx
Meenal Srivastava	TBC	Remote - WebEx
Michael Flynn	Stanwell	Remote - WebEx
Mahdi Maleki	AusNet Services	Remote - WebEx
Natalie Junge	Infigen	Remote - WebEx
Nick Gustafsson	Red Energy	Remote - WebEx
Neville Lewis	AusNet Services	Remote - WebEx
Owen Self	Stanwell	Remote - WebEx
Paul Greenwood	Vector	Remote - WebEx
Prabpreet Calais	AEMC	Remote - WebEx
Rajiv Balasubramanian	Jemena	Remote - WebEx

Ramesh Khadka	Electranet	Remote - WebEx
Rob Wilson	Jemena	Remote - WebEx
Ron Dittman	CitiPower	Remote - WebEx
Rossi Mangano	TBC	Remote - WebEx
Sandra Ho	Snowy Hydro	Remote - WebEx
Shane Murray	Arrow Energy	Remote - WebEx
Sivaprakash Sivan	AusNet Services	Remote - WebEx
Soham Roy Chaudhuri	Alinta Energy	Remote - WebEx
Steve Blair	Essential Energy	Remote - WebEx
Steve Smith	Energex	Remote - WebEx
Stephen Wilson	Aurora	Remote - WebEx
Subhra Sekhar Kar	AGL Energy	Remote - WebEx
Suraj	IntelliHUB	Remote - WebEx
Tessie Sato	Alinta Energy	Remote - WebEx
Tilin Yi	EnergyAustralia	Remote - WebEx
Tim Lloyd	Essential Energy	Remote - WebEx
Victor Sanchez	Infigen	Remote - WebEx
Vidhya Uthaman	Infigen	Remote - WebEx
Warren Van Wyk	IntelliHUB	Remote - WebEx
Wayne Turner	Ausgrid	Remote - WebEx
Wilmund Foong	United Energy	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 #17 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 – 11)

AEMO provided an update on the AEMO program timeline, noting that the testing window for settlements has been extended providing the industry more time for industry testing given in line with the previously agreed shift of Settlement go-live.

In response to a participant query, AEMO noted that the r39\_p1 schema release will be made available on the website on 14 December 2020, and is expected to be made available in staging on 16 December

AEMO presented the upcoming milestones, noting that they are unchanged.

AEMO noted that the overall program remains Green trending down, with L2 internal milestones have been re-baselined with no impact to external milestones. Delivery pressures remain with the Retail workstream, and AEMO will keep the PCF informed if any contingency plans are triggered.

## 4. Procedures Update – S. Tu (slide 12 - 15)

AEMO presented an update on the procedure consultations related to 5MS/GS, noting that there has been no changes from the previous update.

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

AEMO highlighted that :

- AEMO will be working with the relevant LNSP to assign TNI2 and NSP2 for cross boundary meters. More information will be provided in the Cross Boundary Guidelines.
- There is an ongoing requirement for the 'Register ID' and 'suffix' fields to match, however if an MP is using the 'Register ID' as O1 instead of E1, then the fields do not have to match. Participants were advised that further information can be found in the final determination of the procedure consultations.
- New NCONUML NMI Class codes will be available in list for SORD, with the effective data decided to be 10 November 2021. This change will likely be a B2B schema change.

## 5. Testing Update – T. Grant (16 - 20)

AEMO provided an update on the 5MS staging environment, and the AEMO pre-production environment. AEMO noted that support for testing and environment issues will be available through Support Hub.

In response to a participant query AEMO noted that sample aseXML's for new RM reports are expected to be published on the website on 14 December 2020. Participants that have requests for specific reports are encouraged to contact the 5MS team at [5ms@aemo.com.au](mailto:5ms@aemo.com.au)

AEMO presented the 5MS staging environment defects that were identified and presented an update on the statuses and actions. More information can be found on slides 17 to 20 of the meeting pack.

**Action 18.5.1:** AEMO to circulate copy of scenarios for Retail invitation testing

**Action 18.5.2:** AEMO to send sample aseXML reports to relevant participants

## **6. Industry Readiness Reporting, Round 5 – A. Tan, G. Minney (slide 21 – 29)**

AEMO provided a summary of the results from the fourth round of readiness reporting, noting that the industry is reporting consistent progress, with all except one participant reporting that their overall program is on track.

AEMO raised emerging participant risks that were identified through readiness reporting. More details are available on slides 23 to 25 of the meeting pack.

- One participant flagged that a major vendor is constrained in testing their 5-minute product because the 5MS staging environment is accessible only to industry participants. Other members of the RWG reported that this issue was not applicable to their program. Based on RWG members response AEMO proposed that this risk should be managed at the individual participant level, and not at the industry level.
- AEMO noted that a number of MPs have not performed a data cleanse of the meter installation type code in MSATS by the MTP transition end date. MPs that have not performed this activity should supply mitigation details when responding to the fifth readiness reporting survey.
- AEMO noted that the Cross Boundary Guidelines are currently with the AEMO legal team for approval and will be released to the industry as soon this process has been completed.

AEMO presented the reporting reporting schedule for 2021, noting that the next round of reporting will commence on 2 February 2021.

## **7. Transition Focus Group / Metering Transition Plan Update – B. Miner (slide 30 – 38)**

AEMO provided a debrief on the Transition Focus Group held on 26 November 2020, providing updates on:

- MTP CATS transaction volume management
- Upcoming MTP Activities
- GLOPOOL Update
- Cross boundary guidelines

In response to participant queries:

- AEMO clarified that the read type code is not required for unmetered loads (NCONUML and type 7 meters)
- AEMO noted that there are a number of outstanding TFG actions due for completion this week, including an action for MPs to advise if they intend to update the RWDA code before March 2021

More information can be found on slide 31 to 37 of the slide pack. AEMO reminded participants that there are a number of key actions due for completion by COB 15 December.

## **8. Dispatch / Bidding Update – I. Devaney (slide 39 – 41)**

AEMO provided an update on the bidding and dispatch platform, noting that the bidding service is now available in the pre-production environment.

AEMO noted that the FSIP is not in pre-production yet, and expected to be made availalb on 1 March in pre-production, and on 1 April in the production environment.

## 9. Settlements Update – M. Hillaby (slide 42 - 46)

AEMO presented the timelines and supported functionalities, associated to the Settlements platform, noting that there has been no change to the previously communicated timelines.

AEMO noted that the staging APIs for Settlements Direct and Prudential Dashboards have been added to the staging environment, with the guides recently published on the AEMO website.

AEMO provided an update on the settlements workstream, noting that:

- the environment build for pre-production is complete,
- certification activities continue to plan,
- migration activities and parallel testing is underway, and
- UAT is in progress

## 10. Settlements Readiness and Cutover Approach – M. Hillaby (slide 46 - 51)

AEMO presented the high level structure and approach of the Settlements go-live plan, noting that the plan and approach will be presented in more detail to the RWG in early 2021.

More details are available on slides 48 to 50 of the meeting pack.

AEMO noted that the draft industry go-live plan will be available on 22 January 2021 for industry consultation, with the final plan scheduled for publication on 10 March 2021.

## 11. Retail / Metering readiness – J. Agelopoulos, P. Lyttle, S. Tu (slides 39 – 45)

AEMO presented the staging, pre-production and production timelines for the retail platform, noting that there are no changes to the previously communicated timelines for the release.

AEMO presented an update on the aseXML schema, confirming that the r39\_p1 schema will replace the r39 schema.

## 12. Retail Platform Go-live Plan – G. Minney (slide 46 - 47)

AEMO noted that the Retail industry go-live plan was issued on 11 December 2020, and provided an update on the key issues that were addressed. AEMO noted

AEMO noted that MDP's planning to implement MDFF data delivery to AEMO on retail cutover must ensure that they are able to continue delivering metering data in MDMT in the event of a rollback.

**Action 18.12.1:** MDPs to advise if they are able to continue delivering metering data in MDMT in the event of a rollback during the retail cutover

## 13. Forward Plan and Other Business – G. Minney (slide 48 - 50)

AEMO presented the proposed topics for the upcoming RWGs and ITWGs in 2021. AEMO noted that the next RWG will be held on 12 January 2021, with the meeting pack expected to be distributed by COB 8 Jan 2021. 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>.

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	Completed
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	Completed
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	Completed
16.12.1	Retail platform industry go-live plan	RWG to provide feedback on the Retail platform industry go-live plan	RWG	Completed
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	Completed
17.4.1	Procedural updates	AEMO to confirm with RWG timing and 5MS impact of NCONUML NMI class codes related changes in the schema	AEMO	Completed
17.6.1	Cross boundary meters	AEMO to establish with DNSPs the extent that cross boundary meters will be compliant by 1 October 2021, and any potential industry impacts of non-compliance.	AEMO	Completed
17.7.1	Readiness reporting	AEMO to remove questions related to 5MS and GS program establishment from readiness surveys	AEMO	Completed

17.7.2	Readiness reporting	AEMO to consider how to incorporate monitoring of the impacts to 5MS from other regulatory change happening in October 2021 (i.e. Customer Switching, WDR).	AEMO	Completed
17.9.1	Settlements platform timelines	AEMO to update settlements staging, pre-production and production timelines diagram legend	AEMO	Completed
18.5.1	Industry testing	AEMO to circulate copy of test scenarios for industry testing to the RWG	AEMO	Completed
18.5.2	Industry testing	AEMO to send sample aseXML reports to relevant participants	AEMO	Completed
18.5.3	Retail platform cutover	MDPs to advise if they are able to continue delivering metering data in MDMT in the event of a rollback during the retail cutover	RWG	Tue 12 Jan