

5MS and GS Readiness Working Group – Meeting Notes

MEETING: Readiness Working Group
 DATE: Monday, 17 August 2020
 TIME: 10:00 AM – 1:00 PM
 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
Graeme Windley	AEMO	Remote - WebEx
Ian Devaney	AEMO	Remote - WebEx
Jim Agelopoulos	AEMO	Remote - WebEx
Mark Hillaby	AEMO	Remote - WebEx
Michael Sanders	AEMO	Remote - WebEx
Paul Lyttle	AEMO	Remote - WebEx
Peta Hatzikides	AEMO	Remote - WebEx
Simon Tu	AEMO	Remote - WebEx
Tui Grant	AEMO	Remote - WebEx
Vishnu Vijayan	AEMO	Remote - WebEx
Andrew Peart	AGL Energy	Remote - WebEx
Angela Sheeny	Stanwell	Remote - WebEx
Annett Reitmann	AGL Energy	Remote - WebEx
Arif Syarifuddin	Powercor	Remote - WebEx
Audrey Follett	Snowy Hydro	Remote - WebEx
Cameron Bath	Energy Australia	Remote - WebEx
Chris Leffler	AGL Energy	Remote - WebEx
Chrstophe Bechia	Red Energy	Remote - WebEx
Con Michailides	AusNet Services	Remote - WebEx
Craig Eadie	Aurora Energy	Remote - WebEx
David McKenzie	Flow Power	Remote - WebEx
David Woods	SAPN	Remote - WebEx
Dino Ou	Endeavour Energy	Remote - WebEx
Elizabeth Keogh	Stanwell	Remote - WebEx
Ellie Leiper	Actew AGL	Remote - WebEx
Fergus Stuart	Origin Energy	Remote - WebEx

Gail Mitchell	AGL Energy	Remote - WebEx
Grant Ross	Alinta Energy	Remote - WebEx
Greg Fawcett	Engie	Remote - WebEx
Greg Szot	CitiPower / Powercor	Remote - WebEx
Helen Rickards	Essential Energy	Remote - WebEx
Ingrid Farah	Ergon Retail	Remote - WebEx
Jacob Lee	Energy Queensland	Remote - WebEx
Jarah	Hydro Tas	Remote - WebEx
Jaya Mukherjee	Alinta Energy	Remote - WebEx
Jayendra	Insight Power	Remote - WebEx
Jeff Roberts	Evoenergy	Remote - WebEx
Jon Ham	Energy Australia	Remote - WebEx
Joseph	Energy One	Remote - WebEx
Justin Stute	Mondo	Remote - WebEx
Karan Mengi	Energy Australia	Remote - WebEx
Keshava Subbarao	Alinta Energy	Remote - WebEx
Kevin Boutchard	Aurora Energy	Remote - WebEx
Linda Brackenbury	PLUS ES	Remote - WebEx
Lynda Nyberg	Essential Energy	Remote - WebEx
Mariaan Wagner	TBC	Remote - WebEx
Marina Bakh	Jemena	Remote - WebEx
Mark Lee	Momentum Energy	Remote - WebEx
Martin Andonovski	Ergon	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
Oliver Jessup	Stanwell	Remote - WebEx
Owen Self	Stanwell	Remote - WebEx
Paul Willacy	Aurora Energy	Remote - WebEx
Piera Lorenz	Telstra	Remote - WebEx
Matt Porter	Evoenergy	Remote - WebEx
Rajiv Balasubramanian	Jemena	Remote - WebEx
Rob Wilson	Jemena	Remote - WebEx
Roz Bourke	TBC	Remote - WebEx
Shane Murray	Arrow Energy	Remote - WebEx
Soham Roy Chaudhuri	Alinta Energy	Remote - WebEx
Sreeni Srirangam	Metering Dynamics	Remote - WebEx
Steve Smith	Energex	Remote - WebEx
Stewart Bryce	ERM Power	Remote - WebEx
Subhra Sekhar Kar	AGL Energy	Remote - WebEx
Tim Ryan	Ready Energy	Remote - WebEx

Tejas Vadera	Jemena	Remote - WebEx
Vanessa Hogan	TBC	Remote - WebEx
Victor Sanchez	Infigen	Remote - WebEx
Wilmund Foong	United Energy	Remote - WebEx
Stephen Wilson	Aurora Energy	Remote - WebEx
Zulfi Syed	TBC	Remote - WebEx

1. Welcome, Introduction, Attendance and Apologies – G. Minney (slide 1-2)

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 for inclusion on the attendees list.

2. Minutes and Actions from Previous Meeting – G. Minney (slide 7 - 9)

The actions from meeting RWG #12 and SWG #23 have been reviewed and updated. Please refer to the meeting pack and list below for more details.

3. Revised RWG Scope – G. Minney (slide 10 - 11)

AEMO presented the revised RWG scope, noting that the rationale to include SWG members was to provide an end-to-end systems and readiness view at the working groups.

AEMO presented the expected topics that will be covered at future RWGs, as set out in the points on slide 11 of the meeting pack.

4. 5MS Program Update – G. Minney (slide 12 - 14)

AEMO provided an update on the AEMO program timeline, and highlighted the following:

- The 31 August release in the 5MS retail staging environment is on track
- Consultation on the industry bidding transition plan has concluded, and the plan is current being finalised
- Development on the retail platform go-live plan will commence soon
- Industry testing on the dispatch platform will commence in November

5. Regulatory Roadmap Update – AM. McCague (slide 15 - 17)

AEMO provided a summary of the proposed changes to the regulatory roadmap, which was discussed at a workshop on 10 August 2020.

More details are available on slide 16 and 17 of the meeting pack.

Participants noted some questions in relation to the proposed changes. AEMO confirmed that a copy of the presentation will be circulated to the RWG, and that any questions should be directed to stakeholderrelations@aemo.com.au.

Action 14.5.1: AEMO to circulate regulatory roadmap workshop slide pack to RWG

6. Procedures Update – S. Tu (slides 18 - 21)

AEMO presented an update on various procedure items, including the:

- Status of each item
- Final determination dates
- Which items are raised by the 5MS program
- Likely impact to AEMO retail systems
- Expected availability in staging
- Readiness considerations has been added where known
- Two items have been closed (NCONUML objections to CR 2000/2001, Obligation for MC to provide updated or substitution data in the cases of theft or substitution data in the cases of theft or fraudfraud)
- New item has been added to track the 5MS Procedures washup

Action 14.6.1: AEMO to add details of any aseXML schema impacts to the AEMO Retail Systems Impact for a Procedure issue.

More details are available on slide 19 and 20 of the meeting pack.

AEMO also provided indicative timings as to when the necessary updates to procedures would be completed as a result of the three-month deferral of 5MS and GS, noting that AEMO is not required to consult on these changes as per the AEMC's final determination.

In response to queries from the RWG, AEMO clarified that:

- Procedure changes as a result of the 3 month deferral of 5MS and GS are not expected to impact the development of AEMO and participant systems
- Procedure changes associated to other programs will be consulted on as required by the relevant programs
- Consolidated/wash-up procedure changes would be finalised at least 3 months prior to their effective dates

7. Industry Readiness Reporting - A. Tan, G. Minney (slides 22 – 29)

AEMO presented a summary of the special readiness survey, including participation rates and survey results.

AEMO presented a current assessment of the transition risks that were identified as a result of the proposed 12mth deferral of 5MS and GS, including the:

- Risk of a 'two speed' transition
- Risk of a 'big bang' transition of meter changes
- Exposure of LRs to the early delivery of 5-minute metering data

More details, including the likelihood and consequence of each risk can be found on slide 26 and 27 of the meeting pack.

Origin agreed with AEMO's assessment of the LR's residual exposure to early delivery of 5-minute metering data, noting that the risk is reduced due to the shorter 3 month deferral period.

In response to questions from the RWG:

- AEMO raised concerns about Participants waiting until 1 Oct 2021 to deliver/receive 5min metering data for the first time in Production. Should an issue occur at this late stage, key Retailer and Distributor activities could be compromised.
- AEMO noted that it will continue to monitor participant progress with metering transition activities (e.g. NMI class code updates)
- COVID-19 related questions in readiness reporting were included at the request of the Executive Forum, to continue to monitor if COVID-19 is impacting the industry's ability to implement 5MS and GS

AEMO also presented a proposed 'critical path' reporting inclusion, for the AEMO Industry Readiness Reporting, to help improve confidence as to the relative 'speed' of transition to 5MS and GS. Noting that this analysis will be leveraging existing readiness criteria as inputs. More details are available on slide 28 of the meeting pack.

Action 14.7.1: RWG to consider their organisation's exposure to the risk of a 'big bang' delivery and acceptance of 5min metering data in Production i.e. waiting until 5MS commencement to deliver/receive 5min metering data for the first time in Production.

Action 14.7.2: RWG to provide feedback on the proposed 'critical path' reporting approach

8. Testing Update – T. Grant (30 - 34)

AEMO presented an update on testing, noting status and actions on the defects identified in the 5MS staging environment.

AEMO provided the following clarifications:

- Issue 1696 has been fixed but will be deployed into staging together with the Retail Release on 31 August 2020.
- Issue NCR0154924 is now resolved
- 5-minute reads to 5-minute settlements will be simulated during Market Trials, and will be operationalised on 1 October 2021. Prior to that will AEMO will continue BAU processes and produce 30-minute settlement runs.

AEMO also highlighted the retail functionality that will be made available in the 5MS staging environment, including when it will be available for participant testing, and any functional testing considerations.

9. Dispatch / Bidding Update – M. Sanders (slide 35 – 36)

AEMO presented the timelines and supported functionalities, associated to the Bidding/Dispatch platform, for Staging, Pre-production and Production environments. More details are available on slide 36 of the meeting pack.

In response to a Participant query, AEMO confirmed that 5-minute bidding will be available in pre-production from 29 November 2020, noting that each 5-minute bid within each half hour must be identical and give the same effect as the submission of a 30-minute bid.

10. Bidding Transition Plan update – M. Sanders (slides 37 – 38)

AEMO thanked the seven participants who provided feedback on the draft Bidding Transition Plan, and noted that the final plan is on track for publication by the end of August.

11. Settlements Update – M. Hillaby (slide 40 - 42)

AEMO presented the timelines and supported functionalities, associated to the Settlements platform, for Staging, Pre-production and Production environments. More details are available on slide 41 of the meeting pack.

AEMO also confirmed that the Reallocations functionality in Production has been updated to accept 5-minute reallocations from 1 October 2021, in line with the rule change. More details are available on slide 42 of the meeting pack.

In response to a Participant query, AEMO confirmed that the reallocations functionality is currently available in staging for testing.

Retail / Metering readiness – J. Agelopoulos (slides 43 – 45)

AEMO presented the timelines and supported functionalities, associated to the MDM/Retail platform, for Staging, Pre-production and Production environments. AEMO also noted that the functionality matrix previously circulated to the RWG provided further details. A high level summary is available on slide 41 of the meeting pack.

In response to queries from the RWG, AEMO noted that:

- UFE reports will be published from 5 Jul 2021 in pre-production, with manufactured test data, allowing the testing of UFE calculations during GS Market Trials
- The presented diagrams will be included in the functionality matrix document

Action 14.11.1: AEMO to include transition diagrams into the functionality matrix document

12. Metering Transition Plan Proposed Changes – B. Miner (slides 46 – 51)

AEMO presented the Transition Focus Group (TFG) recommended changes to the Metering Transition Plan (MTP). AEMO noted that generally the transition timeframes were extended by 3 months in line with the rule change. More details are available on slide 48 to 50 of the meeting pack.

In response to Participant queries, AEMO confirmed that:

- The proposed transition end date for installing and reconfiguring Unknown Cross Boundary Meters (A24) by 30 September 2021 would appropriately reflect the intention to ensure UFE values are as accurate as possible from the GS soft start date of 1 October 2021. The materiality of not completing A24 by the transition end date will vary according to the level of industry progress on this activity. AEMO will commence UFE publication on 1 October 2021 based on all available data.
- The next TFG will discuss anticipated CATs transaction volumes resulting from MTP activities, and provide any recommendations back to the RWG

There were differing views in the RWG in relation to the MSATS Standing Data Creation and Maintenance transition windows, with one participant preferring a one month restricted timeframe commencing on 1 August 2021, and others preferring a longer transition period from 1 May 2021. AEMO requested that the RWG provide feedback on their organisation's preferred approach.

Action 14.12.1: 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.

13. Retail Documentation and System Updates – P. Lyttle, S. Tu (slide 52-60)

AEMO presented on the changes to the below retail documentation and reports:

- MSATS 46.98 Technical Specification <https://aemo.com.au/-/media/files/electricity/nem/5ms/systems-workstream/2020/msats-release-schedule-and-technical-specification-5ms-meter-data-v3.pdf>
- Meter Data Validation Matrix <https://aemo.com.au/-/media/files/electricity/nem/5ms/systems-workstream/2020/meter-data-validation-matrix.xlsx>

- Changes of note in this version of the Technical Specification are:
 - o B2M via API a Pushed message must be responded to with a MACK payload.
 - o B2M via API v2 of HubMes sageManagement
 - o Update to B2B APIs B2BMessagingPull and B2MMessagingAsync to support B2M MTRD
 - o Clarificaiton on folder locations for submitting B2M MTRD messages
 - o Detail of updates to CATS Reports (C1, C4, C7, C10, C11)
 - o Detail of updates to RM Reports (RM11, RM13, RM17, RM21, RM20, RM25)
 - o Detail of updates to PMS Reports

More details are available on slides 53 to 55 of the meeting pack.

AEMO also presented on the following topics:

- MSATS Standing Data Changes
- CATS CR Changes
- Reports with different CSV interval lengths
- Pushing of New RM Reports
- GLOPOOL Participant ID Update

More details are available on slides 56 to 60 of the meeting pack.

In response to queries from the RWG, AEMO noted that:

- Any reporting from WDR is expected to be sent from the data interchange instead of the MDM
- Timeframes and the approach for the transition of GLOPOOL Participant code will be confirmed with the RWG in due course
- It will confirm with the RWG if Participants will receive a push report if there is no data missing
- Logic of the push reports is provide a report a day prior to settlement runs

Action 14.13.1: AEMO to confirm if Participants will receive push reports if there is no data missing

Action 14.13.2: AEMO to confirm the timeframes and the approach for the transition of GLOPOOL

14. Retail Platform Go-live Plan – G. Minney (slide 61 – 69)

AEMO outlined the high-level structure of the Retail platform go-live plan, noting the proposed objective, scope, principles and high level approach. More details are available on slides 62 to 67 of the meeting pack.

AEMO noted that consultation on the plan is expected to commence on 9 October 2020, with a second round of consultation commencing on 6 November 2020, and the final plan expected on 4 December 2020.

Action 14.14.1: RWG to provide feedback on the proposed high level structure of the Retail platform go-live plan

15. Forward Plan and Other Business – G. Minney (slide 70 - 72)

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

Next Readiness Working Group:

- Monday 14 September 2020

Next Program Consultative Forum:

- Thursday 3 September 2020

Next Executive Forum

- Thursday 8 October 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
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	Mon 14 Sep
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	Fri 4 Sep
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	Fri 4 Sep
14.11.1	Transition Approach	AEMO to include transition diagrams in the functionality matrix document	AEMO	Mon 14 Sep
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	Fri 4 Sep
14.13.1	RM Reports	AEMO to confirm if Participants will receive push reports if there is no data missing	AEMO	Mon 31 Aug
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	Fri 4 Sep