

5MS & GS Program Consultative Forum #22

Tuesday, 2 June 2020

This meeting is recorded for the purpose of minute taking.

Agenda

No	Time (AEST)	Agenda item	Presenter
1	10:00 – 10:05	Welcome and Apologies	Peter Carruthers
2	10:05 – 10:10	Meeting Notes and Actions	Anne-Marie McCague
3	10:10 – 10:25	Program Update	Rowena Leung
4	10:25 – 10:35	12-month Deferral Update	Various
5	10:35 – 10:45	Industry Risks and Issues	Anne-Marie McCague
6	10:45 – 11:00	Readiness Reporting Update	Greg Minney
	Break		
7	11:05 – 11:15	Readiness Workstream Update	Greg Minney
8	11:15 – 11:25	Systems Workstream Update	Graeme Windley
9	11:25 – 11:35	Stakeholder Engagement Survey	Anne-Marie McCague
10	11:35 – 11:40	Forward Meeting Plan	Anne-Marie McCague
11	11:40 -11:50	General Questions	Peter Carruthers
12	11:50	Meeting Close	Peter Carruthers

Welcome and apologies

Peter Carruthers

Meeting Notes and Actions

Peter Carruthers

Program Consultative Forum - Actions

Item	Action required	Owner	Update
21.3.1	In light of the L1-19 AEMO Metering Solution go-live date change to 9 March 2021, AEMO requested that participants provide feedback on consequential date changes to their RWG representatives and submit any feedback to the 5MS@aemo.com.au inbox.	AEMO	Feedback received through PCF and RWG reps – action closed.
21.4.1	Participants to provide feedback on the impact of bringing forward the dispatch and settlement solutions dates.	Participants	Feedback received through PCF and RWG reps – action closed.
21.6.1	AEMO to add the risk of the impact of the potential rule change 12-month deferral to the Industry Risks and Issues Register. To be reported to the next Executive Forum.	AEMO	Risk drafted and to be discussed during PCF#22 – action closed.

Program Update

Rowena Leung

Program update and current activities



AEMO program

- Overall Green, MDM Go-Live and associated milestones have been re-baselined, re-planning activity is now complete.
- The Program is now entering a critical few months of delivery, with a large number of build items to be delivered across all workstreams
- Severe weather event has impacted the TCS Kolkata teams in addition to COVID-19.



Systems

- Staging environment has been updated with the 3rd Settlements drop and 2nd Dispatch drop on 15 May.
- Replanning for Retail is complete. The program is on track to deliver to the two upcoming Staging deployment dates.
- r39 Schema discussion held with market participants, understanding of n-1 requirement conveyed to participants.



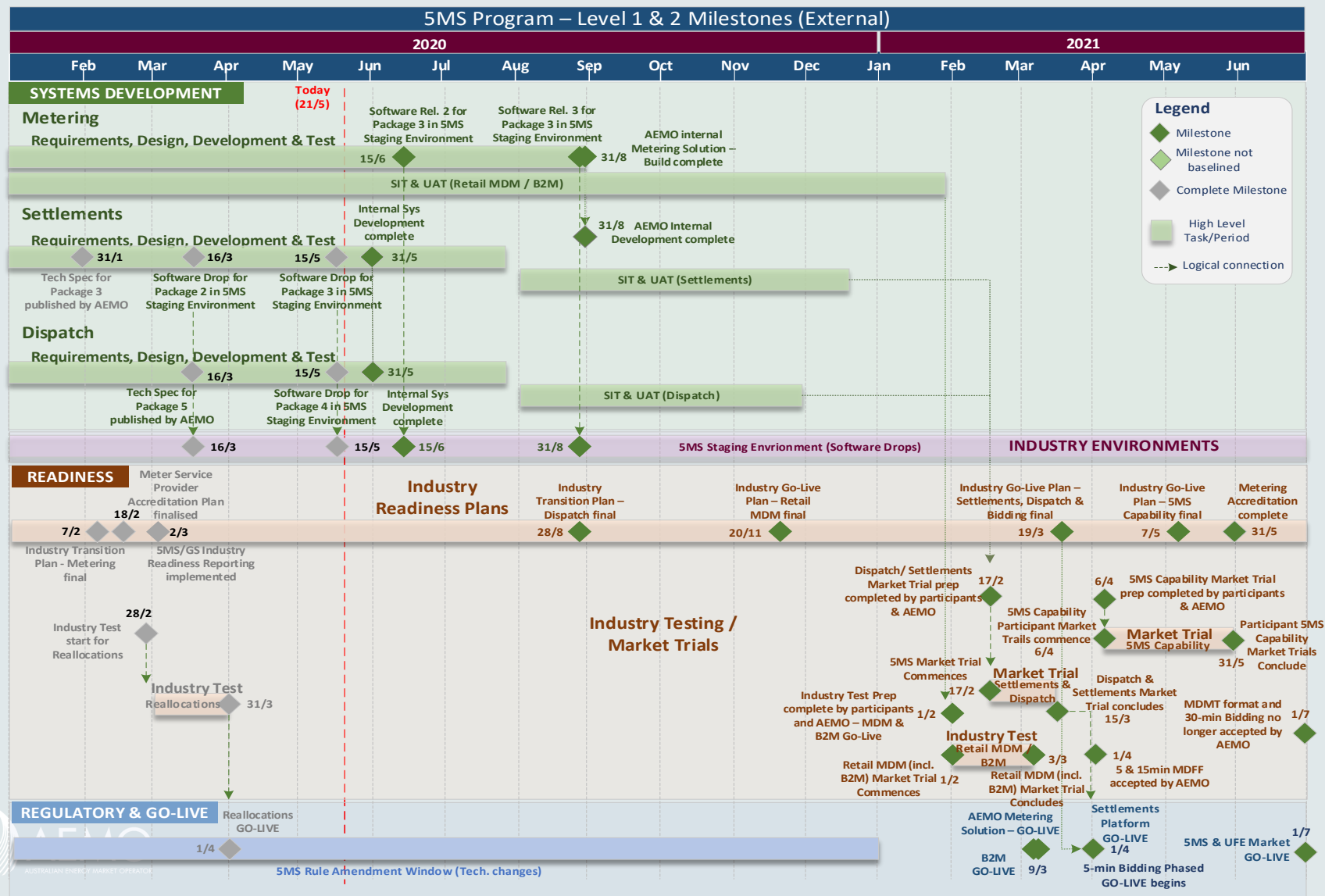
Readiness

- Deferral scenario, incorporating MDM milestone shifts discussed with TFG, RWG and ITWG,
- Readiness Report # 2 results published. Round 2 has seen increase in response rate from participants. Follow up with participants who have indicated program issues to understand remediation requirements

5MS Program Timeline (Jan '20 to Jul '21)

Level 1 and External Level 2 Milestones

Current as at 21-05-2020



Reminder: Milestones that have changed as a result of change to MDM Go-Live

ID	Milestone	Previous Date	New Date	Owner
L1-M6	AEMO Internal Systems Development – Build Complete	30-Jun-2020	31-Aug-2020	AEMO
L1-19	AEMO Metering Solution Go-Live	07-Dec-20	09-Mar-21	AEMO
L2-M7	AEMO internal metering solution – build complete (internal)	30-Jun-2020	31-Aug-2020	AEMO
L2-M8	Software Release 3 for Package 3 in 5MS Staging Environment	31-Jul-2020	31-Aug-2020	AEMO
L2-M11	Market Trial preparation completed by participants for MDM and B2M Go-Live	22-Oct-2020	01-Feb-2021	Participants
L2-M12	Market Trial preparation completed by AEMO for MDM and B2M Go-Live	22-Oct-2020	01-Feb-2021	AEMO
L2-RE29	Retail MDM (incl. B2M) Market Trial Commences	22-Oct-2020	01-Feb-2021	AEMO
L2-RE30	Retail MDM (incl. B2M) Market Trial Concludes	19-Nov-2020	03-Mar-2021	AEMO
L2-M24	B2M Go-Live	17-Mar-2020	09-Mar-2021	AEMO
L2-M10	5 min and 15 min MDFF accepted by AEMO	01-Feb-2021	01-Apr-2021	AEMO

Proposed Changes to Settlements and Bidding Go-Live

- At PCF#21 AEMO proposed bringing the Settlements and Bidding Go-Lives forward.

Rationale

- This was proposed as a risk mitigation measure for the following risks:
 - The risk of three significant cutovers all in a similar time
 - The solution going first (Retail) carries the most technology risk
- Both solutions are tracking on schedule for deployment into pre-production in November 2020. If the software is ready to be deployed and all entry criteria to deployment is met, AEMO should look to deliver the changes and close down program streams.
- AEMO sought feedback from the PCF and RWG on the proposed changes (next slide)

Next Steps

- AEMO has reviewed all feedback and has continued discussions internally to consider the impact on the AEMO business
- There have been a number of risks identified with bringing the solutions forward e.g. proximity to other scheduled AEMO activities and resourcing constraints
- Therefore, **AEMO is not proposing to change the date** for the Settlements and Bidding Go-Live milestones. They will remain, as scheduled, on **01-Apr-21**
- However, AEMO is proposing to add the risk of having three major go-lives in close proximity to the Industry Risks and Issues Register

Summary of Feedback Received

#	Question	Summary Response
1	Does the proposal to bring forward the implementation of the 5MS settlements platform to mid-February 2021 impact your 5MS program?	All six participants responded, "no impact". Additional comments include: 1) <i>A change to the implementation date avoids multiple concurrent go lives, which is a good idea, and</i> 2) <i>A request for a longer testing period.</i>
2	What other changes to the proposed deployment timeframe would assist in mitigating any impacts?	Three responded "no impact" and a further three indicated: 1) <i>It would be helpful if all APIs were made available as soon as possible,</i> 2) <i>The extended testing window was suitable, and</i> 3) <i>A delay in bilateral testing affects planning for testing resources.</i>
3	Does the proposal to bring forward the implementation of the 5MS bidding platform to November impact your 5MS program?	Three responded "no impact" and one indicated the proposed testing timeframes <i>were not</i> suitable as work on their delivery is on hold, pending the rule change deferral decision. A further two comments agree with the proposal: 1) <i>No issue with bringing it forward, and</i> 2) <i>It's desirable to have the environment available in Nov 2020 for testing purposes.</i> Several additional questions and suggestions were made about the approach for AEMO to consider and respond to.
4	What other changes to the proposed deployment timeframe would assist in mitigating any impacts?	Three responded with no impact or anything further to add. An additional three suggested AEMO: 1) <i>Seeks more details of specific industry testing scope, participation and approach, and</i> 2) <i>Defer the implementation slightly and reduce the dispatch transition period by one month.</i>
5	Would deferring AEMO's acceptance of 5-minute MDFF files to 1 April 2021 impact your 5MS program?	Five responded, "no impact" and one commented they will be reviewing the full testing lifecycle, including what AEMO has included.
6	Does the changed order of systems deployment impact your program?	Five responded, "no impact", but two noted that settlements and dispatch deployment risks could impact MDM deployment. One did not enter a response to this question.
7	Does the proposed testing approach provide enough opportunity for proving participant's 5MS systems and processes?	Three responded that the testing approach is adequate and two expressed the following concerns: 1) <i>About not having B2B in staging impacting bilateral testing</i> 2) <i>If AEMO doesn't run a market trial before the Dispatch Platform is implemented, there won't be enough opportunities for regression testing and identifying issues prior to go live.</i>

12-month Deferral Update

12 month deferral rule change proposal

- Responses to AEMC consultation on proposed 12-month deferral are due 11-Jun-20
- Objections to the proposed urgent rule change process due 28-May-20
- AEMC scheduled to publish a final determination by 9-Jul-20
- AEMO has worked with participants to identify a transition and testing scenario for a 12-month deferral

Next steps:

- Subject to the decision being received on 9-Jul-20, AEMO proposes to hold a special RWG / PCF to review the consequences for 5MS industry timelines and identify the steps required to achieve certainty as soon as possible.

Risks and Issues

Anne-Marie McCague

Industry Risks and Issues Register

- As discussed at PCF#21, the proposed 12 month deferral makes it difficult to meaningfully review the Industry Risks and Issues register, as there are at least 2 scenarios: no deferral and 12 month deferral
- Propose to schedule a review during August PCF which will capture any risks and issues resulting from AEMC decision on 12-month deferral proposal
- Purpose of today is to review new risks and identify any risks or issues that should be raised at the Executive Forum.

Risks

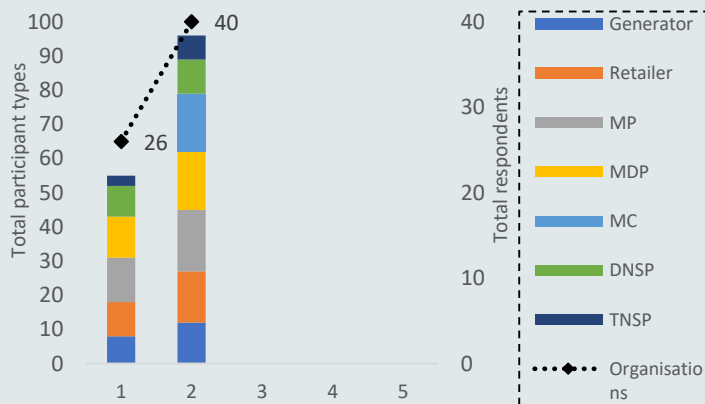
↑ Improving
↔ Stable
↓ Worsened

ID	Owner	Title	Residual Rating	Trend	Actions
R25	PCF	Risk of the spread of Coronavirus impacting organisations resulting in an impact to 5MS program readiness	Critical	Up	Monitor through PCF and Readiness Questionnaire Proposal: Raise at EF with summary of feedback through Readiness Questionnaire
R26	PCF	The proposed 12-month rule deferral is causing uncertainty for industry programs and there is a risk that resources may be occupied considering the proposed rule change which may have consequences for participant implementation programs		New	Proposal: Raise at EF
R27	PCF	If the commencement of 5MS &GS is deferred, there is a risk that participants that choose to postpone their programs in line with the new commencement dates will have less opportunity to influence the 5MS Program than those that progress on the same timeline as AEMO.		New	Proposal: postpone discussion for post AEMC decision Focus Group
R28	PCF	There is a risk that a 12-month deferral will cause participants to incur additional costs and face possible impediments to delivery. At this stage, with contractual commitments made and additional contract staff engaged, delay to the program go-live date will force either: a) extension of contracted resources for 12 months at considerable additional cost, or b) release of contractors and negation of warranty obligations - escalating delivery risk.		New	

Readiness Reporting Update

Greg Minney

Industry Readiness Report 2 – Survey response and coverage



- Strong survey response with a large increase in respondents in round 2 of reporting. Level of industry coverage provides sound basis for overall readiness assessment.
 - 40 organisations responded to the second round of readiness reporting, representing an even mix of participant types. An additional 16 new organisations participated in round 2 of reporting.
 - High coverage of the industry, ranging from 88 – 100% across participant types
 - Metering Coordinators were invited to report on their readiness in the second round of reporting and future rounds of reporting

	% Industry coverage	Industry coverage methodology
Generator	88.6%	Generator respondents' capacity / NEM capacity
Retailer	94.6%	Retailer respondents' settlement vol. / NEM vol.
MP	99.9%	MP respondents' total type 1-4 NEMs/ total type 1-4 NEMs
MDP	100.0%	MDP respondents' total type 1-4 NEMs/ total type 1-4 NEMs
MC	99.8%	MC respondents' total type 1-4 NEMs/ total type 1-4 NEMs
DNSP	100%	Number of DNSP survey respondents / Total DNSPs
TNSP	100%	Number of TNSP survey respondents / Total TNSPs

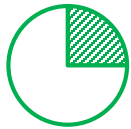
Table 1: Readiness reporting round 2 respondents info and industry coverage

Readiness Reporting Round 2 – Results on a page


	AEMO	Generator	Retailer	DNSP	TNSP	MP	MDP	MC	Total (not incl. AEMO)
Overall program delivery progress and status									
General criteria (Program establishment) - Consolidated readiness	-								
Specific criteria (Capability development) - Consolidated readiness	-					-	-	-	
Ability to submit 5-minute bids	-		-	-	-	-	-	-	-
Ability to support 5-minute reallocations	-			-	-	-	-	-	-
Ability to receive and reconcile 5- minute metering data	-					-	-	-	-
Ability to receive and reconcile 5- minute settlements data	-			-	-	-	-	-	-
Ability to receive and reconcile UFE allocations data	-	-		-	-	-	-	-	-
Metering Transition Plan status - consolidated	-	-	-						

Readiness Reporting Round 2 – Commentary (1)

Overall program



Status: **On track**

Trend: 

Progress: 1-24%
complete

- Overall industry progress and status remains at 1-25% and on-track, consistent with round 1. The downtrend reflects the number of response categories where subsets of participants are indicating emergent risks, issues and heightened uncertainty in comparison to the previous survey.
- Program delivery of 5MS and GS has progressed across the industry, with 27% of the industry now at 25-49% progress or more, compared to 8% two months ago in the previous round of reporting. Majority are on track, with 5 respondents noting that their program is at risk or late.
- An emerging theme among responses highlights the uncertainty created because of the rule change proposal, and varying degrees of impact from COVID-19. At the time of publication, AEMO notes that AEMC is still finalising rule change timelines, and that various 5MS working groups have are currently considering the potential impacts of the rule change.

Overall general criteria



Status: **On track**

- Majority of participants have secured project funding, established project plans and project governance, and have onboarded project teams.
- The proportion of established programs is comparable to round 1, due to new respondents in round 2 having comparatively less established programs.

Readiness Reporting Round 2 – Commentary (2)

AEMO program

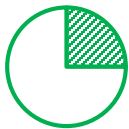


Status: **On track**

Progress: 50-74%
complete

- The AEMO program is proceeding on track and in line with overall program milestones. The delivery day for the MDM implementation has been moved to 9th March 2021, requiring replanning of a number of industry test activities, with an overall impact assessment in progress.
- The AEMO program successfully implemented 5-minute reallocations capability on 1 April 2020.

Overall specific criteria



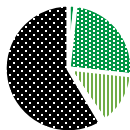
Status: **On track**

Progress: 1-24%
complete

- Progress against specific readiness capability reflects overall program reporting and in general is reported as on track
- All participant types have commenced implementing capability for 5MS and GS commencements. Generators and DNSPs are the most progressed participant type when reporting on specific criteria, averaging 25-49% progress compared 1-24% progress for other participant types.
- One or two respondents from each participant type are reporting that their status to implement participant specific capabilities for market commencement is not on track.

Readiness Reporting Round 2 – Commentary (3)

Metering Transition Plan



Status: **On track**

- Complete
- ▨ On track (started)
- ▤ On track (not started)

- Participants are progressing with activities in the Metering transition plan (MTP), with a few items requiring AEMO confirmation and follow up to address recovery approaches for delayed activities.
 - AEMO raised the follow items for discussion at the TFG on 6 May 2020
 - MP and MC meter installation and reconfiguration activities for S01 – S05
 - MDP metering data delivery activities for S17 – S20
 - MP MSATS Standing Data Creation and Maintenance in S39
 - MP and MDP Metering accreditation update activities for S40 – S44
- MPs and MDPs still reporting 'n/a' to a large number of metering transition plan activities
- Survey coverage of MPs responsible for BULK/ Wholesale NMIs is now at 100% compared to 54% in previous round of reporting.
 - Essential metering reported as “on track”
 - A subset of respondents in this category reporting “at risk”
- Some participants are providing status reporting of MTP activities in way that does not reflect the defined transition end dates. (E.g. Reporting that an activity status is “On track – not started” for activities where the transition end date has passed.)
 - **Discussion:** What are participants’ experiences when providing MTP related reporting? Are there any suggestions for AEMO to provide additional support with this process to align reporting with the MTP?

Readiness Reporting – Actions in progress

- Participants who have reported programs as “At risk” or “Late” will have targeted follow up to understand remediation activities to be implemented
 - Focus on MP’s/ MC’s/ MDPs for essential metering
- Targeted follow up of participants who did not respond to 2nd round of reporting
- Refinement of N/A response rationale to identify respondent scope issues.

Break

Readiness Workstream Update

Greg Minney

Workstream engagement

RWG #11

- 12 month Deferral Scenario as input to AEMC consultation
- RWG Feedback considerations for implementation in event of deferral:
 - Timing and structure of readiness reporting
 - Support for participant testing during extended transition periods
 - Impact of other participants approaches in limiting extend programs can continue
- Proposed date changes for Settlements, Dispatch and MDM
 - Industry testing strategy updates to reflect deployment approach
 - Feedback from RWG on Deployment proposals
- Industry Readiness reporting
 - Addressed in previous agenda item
- Contingency Plan and essential capability
 - See Following slides

Metering Transition Plan

- Scenarios to address 12 month Deferral and MDM date shift

Workstream engagement

ITWG #6

- Will confirm approach and scope of approach to Industry Testing and Market Trials under revised implementation plan
 - MDM Platform deployment and introduction of B2M capability
 - Bidding and Dispatch platform
 - Settlement Platform
- Participant based testing scenarios to form basis of industry testing approach and support

Metering Accreditation Update Plan

- Pre-accreditation meetings have commenced
- AEMO follow up with key participants where potential delays have been identified

“Minimum criteria” and go/no-go decisions: Approach

Assessment undertaken as component of 5MS/GS Industry readiness contingency planning:

1. Established critical elements for 5MS commencement:
 - **Essential meters** to be in place at rule commencement
 - Assess **essential capability** for each major participant group to be in place at rule commencement to enable market operations to continue with integrity and without interruption
 - Essential capability is a subset of participant readiness reporting criteria i.e. it is different from the **total** capability required for **compliance** with the 5MS and GS rules
2. Assessed essential capability against system go-live and rule commencement decisions

“Minimum criteria” and go/no-go decisions

Milestone	Timing	Go-live considerations
System go-live: MDM	9 Mar 21	<ul style="list-style-type: none"> AEMO ready to launch system into production (including availability for participant testing) <ul style="list-style-type: none"> MDM provides the ability to receive 5-min settlement data from go-live Participants: <ul style="list-style-type: none"> Do not need to be “ready”: can still send and receive data as usual until 1 July 21 MDPs have the option of sending 5-minute granularity data to AEMO by agreement from MDM go-live and before 5MS commencement
System go-live: Dispatch	1 Apr 21	<ul style="list-style-type: none"> AEMO ready to launch system into production (including availability for participant testing) Participants: <ul style="list-style-type: none"> Do not need to be “ready”: can still bid as usual until 1 Jul 21 Have the option of submitting 5-minute granularity bids** during transition period (from 1 Apr 21)
System go-live: Settlements	1 Apr 21	<ul style="list-style-type: none"> AEMO ready to launch system into production (including availability for participant testing) Participants do not need to be “ready”: will all receive 30-min invoices up to 1 Jul 21
5MS commencement and UFE reporting commencement	1 Jul 21*	<ul style="list-style-type: none"> AEMO platforms complete and capable of: <ul style="list-style-type: none"> 5-min settlement (including 5-min profiling): Able to produce 5-min settlement invoices 5-min bidding: Enables submission of 5-min bids via API, FTP or the web bidding interface Participants have essential capability: <ul style="list-style-type: none"> Submit 5-min bids, including via web bidding interface (basic functionality) Deliver 5-min data from essential meters for settlement purposes (supporting contingency arrangements have been developed)
GS commencement	6 Feb 22*	<ul style="list-style-type: none"> AEMO ready to change FRMP to GLOPOOL in MSATS

*5MS and GS commencement dates are currently under consideration by the AEMC:
<https://www.aemc.gov.au/rule-changes/delayed-implementation-five-minute-and-global-settlement>

** 5-min bids during the transition period must be the same within a 30-min trading interval

Current as at 21-05-2020



Key Milestones (Program)

ID	Milestone	Target Date	Expected Date	Owner	Status
L2-RE01	Industry Working Group Established	15-Jul-2019	15-Jul-2019	AEMO	Complete
L2-RE02	Market Readiness Strategy Industry Draft	30-Aug-2019	30-Aug-2019	AEMO	Complete
L2-RE03	Market Readiness Strategy Finalised	29-Nov-2019	30-Oct-2019	AEMO	Complete
L2-RE04	Industry Test Strategy Industry Draft Released	30-Sep-2019	30-Sep-2019	AEMO	Complete
L2-RE05	Industry Test Strategy Finalised	29-Nov-2019	29-Nov-2019	AEMO	Complete
L2-RE06	Transition and Go Live Strategy Industry Draft Released	30-Sep-2019	30-Sep-2019	AEMO	Complete
L2-RE07	Transition and Go Live Strategy Finalised	29-Nov-2019	29-Nov-2019	AEMO	Complete
L2-RE08	Market Trial Strategy Industry Draft	30-Sep-2019	30-Sep-2019	AEMO	Complete
L2-RE09	Market Trial Strategy Finalised	29-Nov-2020	29-Nov-2019	AEMO	Complete
L2-RE10	Metering Service Provider Accreditation Update Plan Industry Draft	29-Nov-2019	29-Nov-2019	AEMO	Complete
L2-RE12	Industry Readiness Reporting Plan Industry Draft	31-Oct-2019	31-Oct-2019	AEMO	Complete
L2-RE13	Industry Readiness Reporting Plan Finalised	13-Dec-2019	13-Dec-2019	AEMO	Complete
L2-RE15	Industry Transition Plan – Metering final complete	07-Feb-2020	07-Feb-2020	AEMO	Complete
L2-RE14	5MS / GS Industry Readiness Reporting Implemented	28-Feb-2020	02-Mar-2020	AEMO	Complete
L2-S8	Industry Test start for Reallocations	01-Mar-2020	28-Feb-2020	AEMO	Complete





Level 2 Milestones – Readiness

Current as at 21-05-2020

Domain	Initiative	2019												2020												2021											
		Q1			Q2			Q3			Q4			Q1	L2-RE32	Q2			Q3			Q4			L2-M12	L2-RE29	L2-D8	L2-RE30	Q2			Q3			Q4		
Readiness																																					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec

Key Milestones (Program)

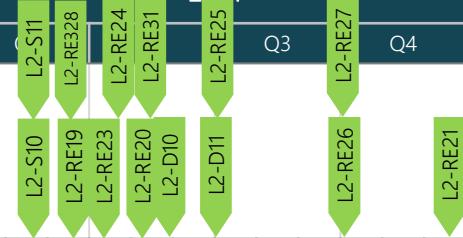
ID	Milestone	Target Date	Expected Date	Owner	Status
L2-RE11	Metering Service Provider Accreditation Plan Finalised	13-Mar-2020	18-Feb-2020	AEMO	Completed
L2-S12	Reallocations Go-Live	01-Apr-2020	01-Apr-2020	AEMO	Completed
L2-RE32	Industry Test for Reallocations Concludes	31-Mar-2020	31-Mar-2020	AEMO	Completed
L2-RE22	Industry Transition Plan – Dispatch final complete	28-Aug-2020	28-Aug-2020	AEMO	
L2-M11	Market Trial preparation completed by participants for MDM and B2M Go-Live	01-Feb-2021	01-Feb-2021	Participants	
L2-M12	Market Trial preparation completed by AEMO for MDM and B2M Go-Live	01-Feb-2021	01-Feb-2021	AEMO	
L2-RE29	Retail MDM (incl. B2M) Market Trial Commences	01-Feb-2021	01-Feb-2021	AEMO	
L2-RE30	Retail MDM (incl. B2M) Market Trial Concludes	03-Mar-2021	03-Mar-2021	AEMO	
L2-RE18	Industry Go-Live Plan Retail MDM finalised	20-Nov-2020	20-Nov-2020	AEMO	
L2-M24	B2M Go-Live	09-Mar-2021	09-Mar-2021	AEMO	
L2-M10	5 minute files in MDFF accepted by AEMO	01-Apr-2021	01-Apr-2021	AEMO	
L2-D7	Dispatch Market Trial preparation completed by participants	17-Feb-2021	17-Feb-2021	Participants	
L2-D8	Dispatch Market preparation completed by AEMO	17-Feb-2021	17-Feb-2021	AEMO	

-  Milestone complete
-  Milestone on track
-  Milestone at risk
-  Milestone not achieved

Level 2 Milestones – Readiness

Current as at 21-05-2020

Domain	Initiative	2019												2020												2021											
		Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3			Q4		
Readiness																																					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec



Key Milestones (Program)

ID	Milestone	Target Date	Expected Date	Owner	Status
L2-S10	Settlements Market Trial preparation completed by participants	17-Feb-2021	17-Feb-2021	Participants	
L2-S11	Settlements Market Trial preparation completed by AEMO	17-Feb-2021	17-Feb-2021	AEMO	
L2-RE28	Dispatch and Settlements Market Trial concludes	15-Mar-2021	15-Mar-2021	AEMO	
L2-RE19	Industry Go-Live Plan Settlements, Dispatch & Bidding finalised	19-Mar-2021	19-Mar-2021	AEMO	
L2-RE23	5MS Capability Market Trial preparation completed by participants	06-Apr-2021	06-Apr-2021	Participants	
L2-RE24	5MS Capability Market Trial preparation completed by AEMO	06-Apr-2021	06-Apr-2021	AEMO	
L2-RE31	5MS Capability Market Trial commences	06-Apr-2021	06-Apr-2021	AEMO	
L2-RE20	Industry Go-Live Plan – 5MS Capability final complete	07-May-2021	07-May-2021	AEMO	
L2-D10	5MS Capability Market Trial concludes	31-May-2021	31-May-2021	AEMO	
L2-D11	30-min Bidding no longer accepted by AEMO	01-Jul-2021	01-Jul-2021	AEMO	
L2-RE25	MDMT format no longer accepted by AEMO for interval meters	01-Jul-2021	01-Jul-2021	AEMO	
L2-RE26	GS Market Trial preparation completed by participants	01-Oct-2021	01-Oct-2021	Participants	
L2-RE27	GS Market Trial preparation completed by AEMO	01-Oct-2021	01-Oct-2021	AEMO	
L2-RE21	Industry Go-Live Plan – GS Capability final complete	21-Dec-2021	21-Dec-2021	AEMO	

- Milestone complete
- Milestone on track
- Milestone at risk
- Milestone not achieved

Systems Workstream Update

Graeme Windley

SWG #22 Update

Reduction from previous attendance, approx. 70 people present including AEMO personnel.




Day 1 Mandatory Activity











- Presented information on what is to happen on Day 1.
- Requested participants who have scrapes, robots or any other automated upload tooling to confirm these to AEMO and test the new formats delivered within the Staging environment.

Staging Releases

- Presented information on both deployments.
- Minimal questions, likely due to it being too early for proper feedback. Q&A approach works better with market participants.
- Updates to Data Model presented.

Systems Deployment Update

On track  Overall Program Status
At risk 
Delayed 
Complete  

	Staging Environment	Pre-Production	Production Go-Live
Dispatch	<ul style="list-style-type: none"> ✓ P1 – Bidding FTP & API – 29-Nov-19 ✓ P2 – Bidding Web UI – 29-Nov-19 ✓ P3 – Dispatch, Pre-dispatch and PASA - 29-Nov-19 ✓ P4 – Pricing & Miscellaneous – 15-May-20 	<ul style="list-style-type: none">  5-min Bidding (all packages) – 29-Nov-20 	<ul style="list-style-type: none">  5-min Bidding (all packages) – 01-Apr-21
Retail	<ul style="list-style-type: none"> ✓ P1: Metering Data & Metrology 01-Dec-19 ✓ P2: MSATS & SLPs – 01-Dec-19  P3a: B2M via API & MSATS Browser – 15-Jun-20  P3b: MSATS Report – 31-Aug-20 	<ul style="list-style-type: none">  MDM solution (all packages) – 01-Feb-21 	<ul style="list-style-type: none">  MDM solution (all packages) – 09-Mar-21
Settlements	<ul style="list-style-type: none"> ✓ P1: Reallocations – 01-Nov-19 ✓ P2: Settlements & Billing – 16-Mar-20 ✓ P3: Prudentials & Estimation – 15-May-20 	<ul style="list-style-type: none">  Reallocations (P1) – 26-Feb-20  Settlements Platform (P2&3) – [TBC]-Feb-21 	<ul style="list-style-type: none">  Reallocations (P1) 01-Apr-20  Settlements Platform (P2&3) – 01-Apr-21

Stakeholder Engagement Survey

Anne-Marie McCague

Response rate to Q1 2020 Stakeholder Engagement Survey

Working Group	Q4 2019	Q1 2020
PCF	9	21
RWG	10	21
SWG	6	19
ITWG	N/A	12

Summary of PCF feedback

Question	Response	Summary comment
Accessibility of information	Majority responded positively	An improvement from last time
Consistency of information	Majority responded positively	Timelines are an area for improvement
Two-way discussions	Majority responded positively	No additional comments
Timeframes	Majority responded positively	Improvement is needed. Confusion over the number of timelines and clarity over how to track them
Reusability of packs	Majority responded positively	Comments on use of pdf
Transparency	Majority responded positively	No additional comments
Actions	Majority responded positively	Noted that this has improved but comments about the timeliness of packs and minutes
Frequency of meetings	Majority responded positively	No additional comments
5MS Stakeholder Engagement Framework	Majority responded positively	No additional comments

Next Steps

- All feedback from all working groups has been reviewed and discussed
- Key areas for improvement across all working groups:
 - Timelines – consistency and clarity
 - Timeliness of packs and minutes
 - **Proposal:** Currently we publish the minutes once they have been approved by the Working Group which means that they do not appear on the website for at least a month after the meeting or in the case of the Executive Forum, 3 months.
 - Proposing to publish the minutes as draft when we circulate to the Working Group / Forum
 - Each member still has the opportunity to seek to amend and we can republish with any agreed changes
 - Alignment of information across working groups
 - As the AEMO systems deployment progresses, AEMO and participants are becoming more focused on readiness activities. AEMO is undertaking a review of the working group structure to identify a more streamlined approach to disseminating information for this phase of the program and facilitating focused discussions with the appropriate experts on the call.
 - This approach will also aim to provide an improvement in the consistency and clarity of the timelines. Alignment between RWG and SWG will be a key area of focus.
 - AEMO will discuss possible options with working groups and present a proposal to the PCF in July

Forward Meeting Plan

Anne-Marie McCague

Proposed Executive Forum Agenda

- Next Executive Forum scheduled for 11 June 2020
- Proposed agenda:
 - Actions from previous meeting
 - Issues and critical risks
 - Program update – changes to milestones
 - Proposed 12 month deferral
 - Summary of work
 - Update on Readiness Report Round 2
 - Critical Mass

Proposed Upcoming Sessions

- General Information Session – 16-Jul-20
 - Post AEMC decision on proposed 12-month deferral
- Vendor Session – 16-Sep-20
 - Post AEMC decision on proposed 12-month deferral
 - Post final deployment into 5MS Staging Environment

Forward Meeting Agenda

July Agenda

- Executive Forum debrief
- Results of review of Working Group structure

Next meeting: 2 July 2020

To add items to the agenda, please contact us at 5MS@aemo.com.au

Upcoming meetings

<https://aemo.com.au/initiatives/major-programs/nem-five-minute-settlement-program-and-global-settlement>

Current as 30 April 2020

MAY

Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

JUNE

Su	Mo	Tu	We	Th	Fr	Sa
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

JULY

Su	Mo	Tu	We	Th	Fr	Sa
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

Forums/Working Groups
Executive (EF)
Program Consult. (PCF)
Procedures (PWG)
Systems (SWG)
Readiness (RWG)
Industry Testing (ITWG)

Focus Groups
Dispatch
Metering
Settlements
Transition
Industry Testing
Reconciliation
Contingency

Other
Information sessions
General Q&A session
National Public Holiday
State Public Holiday*

*Relevant state has been marked in a comment. WA, NT, TAS, ACT holidays have not been marked.

General Questions

Peter Carruthers

Meeting Close

Peter Carruthers



5MS Staging Environment Update

Dispatch	Settlements	Metering
<p><u>DROP ONE – 29 November 2019</u> Submit 5-Min Bids, via new web interface, API and/or FTP Bidding Data Model changes as per technical specifications released July 2019 Case Loaders for PASA, Dispatch, 5-minute Pre-Dispatch & 30-minute Pre-Dispatch data</p>	<p><u>DROP ONE – 1 November 2019</u> Reallocations: available at both 30 and 5-min intervals New Web UI Calendar selection Alerts</p>	<p><u>DROP ONE – 1 December 2019</u> Test connection to Staging Test MDFF validations Validate data exchange</p>
<p><u>DROP TWO – 15 May 2020</u> Administrative Price Cap (calculated on a 5-min basis over the past seven days) Pricing DDL (provides the NEM report configuration; pricing will be in 5-min not 30-min)</p>	<p><u>DROP TWO – 15 March 2020</u> Settlements 30-min: R1, R2, PF and F runs all completed, tax invoices – RCTIs, Statements and Reconciliations available for the runs delivered Data interchange files produced 5-min to come</p>	<p><u>DROP TWO – 15 June 2020</u> Test MTRD CSV MDFF created for NEM Settlements and TUOS billing against new AEMO validations for NEM13 and NEM12 (30 min, 15 min and 5 min). Test MDMT CSV MDMF created for NEM Settlements against AEMO validations for Basic, Interval and Profile meters. Validate FTP or API message exchange with the NEMMCO participant ID for MTRD and MDMT MeterDataNotifications. Confirm AEMO ingested meter reads.</p>
	<p><u>DROP THREE – 15 May 2020</u> Prudential's based on 30 minute data and 5MS settlements direct including Prudential forecaster</p>	<p><u>DROP THREE – 31 August 2020</u></p>
Drop Two Status : Complete	Drop Three Status : Complete	<p>Drop Two Status : On track [Report detail and timing to be provided as testing completes]</p>