

5MS & GS Readiness Working Group #11

Thursday 14th May, 2020

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PLEASE NOTE THIS MEETING WILL BE RECORDED FOR THE PURPOSE OF PREPARING MINUTES

AEMO Competition Law Meeting Protocol

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Participants in AEMO discussions **must**:

1. Ensure that discussions are limited to the matters contemplated by the agenda for the discussion
2. Make independent and unilateral decisions about their commercial positions and approach in relation to the matters under discussion with AEMO
3. Immediately and clearly raise an objection with AEMO or the Chair of the meeting if a matter is discussed that the participant is concerned may give rise to competition law risks or a breach of this Protocol

Participants in AEMO meetings **must not** discuss or agree on the following topics:

1. Which customers they will supply or market to
2. The price or other terms at which Participants will supply
3. Bids or tenders, including the nature of a bid that a Participant intends to make or whether the Participant will participate in the bid
4. Which suppliers Participants will acquire from (or the price or other terms on which they acquire goods or services)
5. Refusing to supply a person or company access to any products, services or inputs they require

Under no circumstances must Participants share Competitively Sensitive Information. Competitively Sensitive Information means confidential information relating to a Participant which if disclosed to a competitor could affect its current or future commercial strategies, such as pricing information, customer terms and conditions, supply terms and conditions, sales, marketing or procurement strategies, product development, margins, costs, capacity or production planning.

Agenda ****Please disconnect from your workplace VPN for the WebEx call****

NO	TIME (AEDT)	AGENDA ITEM	RESPONSIBLE
1	10:00am – 10:10am	Welcome, introduction and apologies	Greg Minney
2	10:10am – 10:15am	Notes, actions and feedback from previous meeting	Greg Minney
3	10:15am – 10:30am	Round #2 Industry readiness reporting	Austin Tan
4	10:30am – 11:30am	Impact of proposed MDM milestone change	Greg Minney
5	11:30am – 11:40am	Update on AEMC process for deferral rule change request	AEMC
BREAK 11:40am – 11:50am			
6	11:50am – 12:30 pm	Development of proposed deferral approach and advice	Greg Minney
7	12:30pm – 12:45pm	“Minimum criteria” and go/no-go decisions	Greg Minney
8	12:45pm – 12:55pm	Bidding transition plan approach	Emily Brodie
9	12:55pm – 13:00pm	Forward meeting plan and general questions	Greg Minney
APPENDICES			
A	Readiness milestones		
B	Industry readiness update		
C	Metering procedures update		

Notes, actions and feedback from previous meeting

Greg Minney

Responses to RWG meeting actions

#	Topic	Action	Response
10.2.1	5MS proposed rule change	AEMO to circulate further information on AEMC workshops related to COVID-19	<p>AEMC have indicated the following expected (but not confirmed) dates for the rule change process:</p> <ul style="list-style-type: none"> • Thu 14 May: Publish consultation paper • Thu 11 Jun: Submissions due on consultation paper • Thu 9 Jul: Publish final determination <p>AEMC to provide update on consultation activities in this RWG #11 meeting.</p>
10.4.1	Industry readiness reporting	RWG to provide feedback on the calculation methodology for industry participation rates in readiness reporting.	<p>Five RWG members responded to this action. Consolidated feedback and AEMO's response will be presented in the readiness reporting section of this RWG#11 meeting.</p>

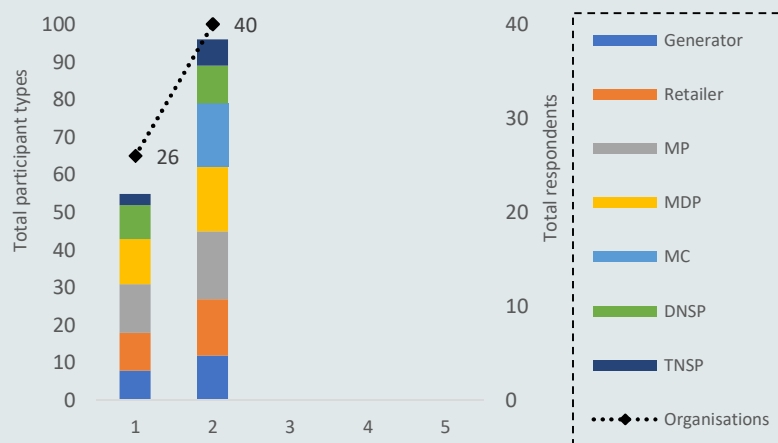
Round #2 Industry readiness reporting

Austin Tan

Industry Readiness Report 2 - Background

- The second round of readiness reporting commenced on 14 April 2020, a few days after a rule change proposal to defer 5MS was submitted to the AEMC on 9 April 2020. For this round of reporting, AEMO requested that the industry provide responses according to the existing commencement dates and plans.
- Responses were received by 23 April 2020, since then AEMO is aware that some organisations may have chosen to make changes to their programs that reflect the possibility of a 12-month deferral to 5MS and GS. This report presents information gathered as of 23 April 2020, and does not reflect any subsequent changes to participants' programs. These changes will likely be identified through the next round of reporting on 7 July 2020.

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

Survey coverage calculation methodology – Feedback and AEMO response

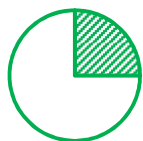
#	Summary feedback	AEMO Response
1.	<ul style="list-style-type: none">Calculating participation rates using number of participants responding / total industry number of participants. e.g. x out of y Retailers participated in the survey.	<ul style="list-style-type: none">This is the metric for DNSPs and TNSPs, where there is a small number of total organisations.For other participants types there is a large number organisations with small market share. From the perspective of keeping NEM wholesale market operations uninterrupted and reliable under 5MS and GS, this approach may underrepresent industry coverage. (e.g. there are over 100 authorised retailers register with the AER).
2.	<ul style="list-style-type: none">List the organisation respondents individually.	<ul style="list-style-type: none">The list of organisations that participant in each round of reporting is published together with the report. However, individual responses are kept confidential.
3.	<ul style="list-style-type: none">Exclude those meters that do not have a regulatory obligation to be upgraded i.e. the Type 4 metering installed prior to 1 Dec 2018 (and 4As before 1/12/19).	<ul style="list-style-type: none">Data not available in MSATS to support this analysis.
4.	<ul style="list-style-type: none">Metrics showing meters converted to 5min / total number of meters by type. (e.g. for Type 1-3 meters).	<ul style="list-style-type: none">Out of scope of assessing industry coverage for readiness reporting.

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



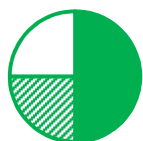
Status: **On track**

- 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)

Slide updated

AEMO program

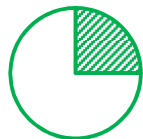


Status: **On track**

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



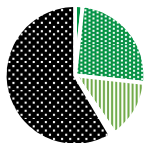
Status: **On track**

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)
- At risk
- Late
- n/a

- 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 NMI is now at 100% compared to 54% in previous round of reporting.
- 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?

Next steps - Summary

- AEMO to monitor and manage uncertainty to industry project timelines, costs and resourcing as a result of pending rule change in the 5MS risks and issues register
- AEMO to follow up with participants regarding potential disruption to physical meter transitions as a result of COVID-19, and continue to monitor and manage COVID-19 risk in 5MS industry risks and issues register
- AEMO to follow up with individual participants with less established programs, and those who reported that their program is at risk
- AEMO to discuss MTP reporting results with TFG (Complete)
- AEMO to follow up with individual participants on late MTP activities to establish recovery plans
- RWG to ensure appropriate status reporting of MTP activities in Round 3

Impact of proposed MDM milestone change

Greg Minney

Changes to be discussed

- PCF has requested advice from RWG on several changes to the 5MS Program timeline:
 - A. Changes to the Metering Solution Go-Live from 7-Dec-20 to 9-Mar-21
 - This is as a result of delays to the required internal systems build
 - B. Proposed changes to Settlements and Dispatch go-lives
 - Under consideration as a risk mitigation measure as a consequence of the Metering Solution go-live date change
 - C. Proposed 12-month deferral
 - The rule change request sent to AEMC by AEMO
 - Will be consulted on by AEMC before final determination
 - This proposal is not linked to changes A and B
- A and B will be discussed in the this agenda item: *Impact of proposed milestone changes*
- C will be discussed in a later agenda item: *Development of proposed deferral approach and advice*

Proposal & rationale

- AEMO proposes to change the systems deployment dates for Dispatch and Settlements solutions, and requests feedback from the PCF (see next slides).
- The proposal is triggered by the program decision to move the Retail solution Go Live date out to 9 March 2021, not the potential of the 12-month industry go live deferral rule change to pass.
- The current approach has the Retail solution being deployed three weeks before the Settlements and Dispatch solution deployments on 1 April 2021. It doesn't consider:
 - The risk of three significant cutovers all in a similar time.
 - The solution going first (Retail) carries the most technology risk with it.

Next steps

- AEMO has proposed an approach to change the deployment dates of the Settlements and Dispatch solution deployments. It considers this approach to mitigate risks associated with having three go-lives close together
- At this point, AEMO is reviewing this approach and its impacts internally
- AEMO is asking the PCF and RWG their view prior to coming to a final decision on this approach
- RWG Reps are requested to liaise with PCF members and provide an impact assessment by **22 May 2020**

Session objectives and assumptions

Session objectives

- Discuss transition and testing scenarios reflecting proposed changes to the deployment dates of the Settlements and Dispatch solutions and those for the MDM.
 - The scenarios will provide an understanding of the impacts of the proposed changes as the basis for advice to the PCF
- Discuss the impact of these changes on participants' programs.

Assumptions

- Replanning assumes the existing 5MS and GS rule commencement dates
- No major changes are necessary to the nature of the Metering transition activities, focus is on timing of those activities. Industry testing approach will be updated to reflect the order and timing of deployment.

Dispatch solution: Deployment proposal

AEMO is considering:

- Bringing forward the Pre-Prod deployment date by six weeks (from 29-Nov-2020 to 15-Oct-2020);
- Bringing forward the Systems deployment to 23-Nov-2020 (not the 5-min bidding activation, which will remain 01-Apr-2020).

Impacts of the Change

- No change to the Production Bidding timeline within the 5MS program – the 01-Apr-2021 change will become a configuration adjustment rather than a systems deployment.
- Pre-Production will have both 30-min Bidding capability and 5-min Bidding capability available from mid-October (date & timing TBC).
- The Pre-Production deployment will represent changes in the “Transition Phase” i.e. 5-min bidding is accepted, and 5-min reporting available, but 30-min market settlement pricing provided.
- The new 5-min market operation will be applied in Pre-Production at the time of 5-min Market Trials (as per the Readiness workstream).

Benefits of Change

- Enables Dispatch systems deployment work to proceed before other system deployments, which have undergone more fundamental changes.
- Enables participant testing of 5-min bidding and the Transition Phase outside the summer period.
- Removes the deployment from Q1 2021, which will contain a number of systems changes.

Settlements solution: Deployment proposal

ID	Stream	Milestone	Planned Date	Proposed Change	%	Comments
L1-SX	Systems	Settlements Platform Go Live	01-Apr-2021	<u>15-Feb-2021</u>	80%	AEMO is currently producing like-for-like invoicing

Impacts of the Change

- The Settlements deployment is a capability deployment, enabling both 30-min and 5-min market delivery. The market will remain settled at a 30-min cadence until the 5-min Settlement Go Live.
- The Pre-Production environment will have the new solution deployed in early December 2020 (date & timing TBC). It will produce 30-min settlement reporting
- The Staging deployment will host 5-min settlement reporting, which will remain enabled for participant testing as per the purpose of the Staging environment.
- The Staging environment can also produce 30-min Settlements reports via the new solution for verification, removing a dependency for Industry Testing over the summer period.
- The new 5-min market operation will be applied in Pre-Production at the time of 5-min Market Trials (as per the Readiness workstream).

Benefits of Change

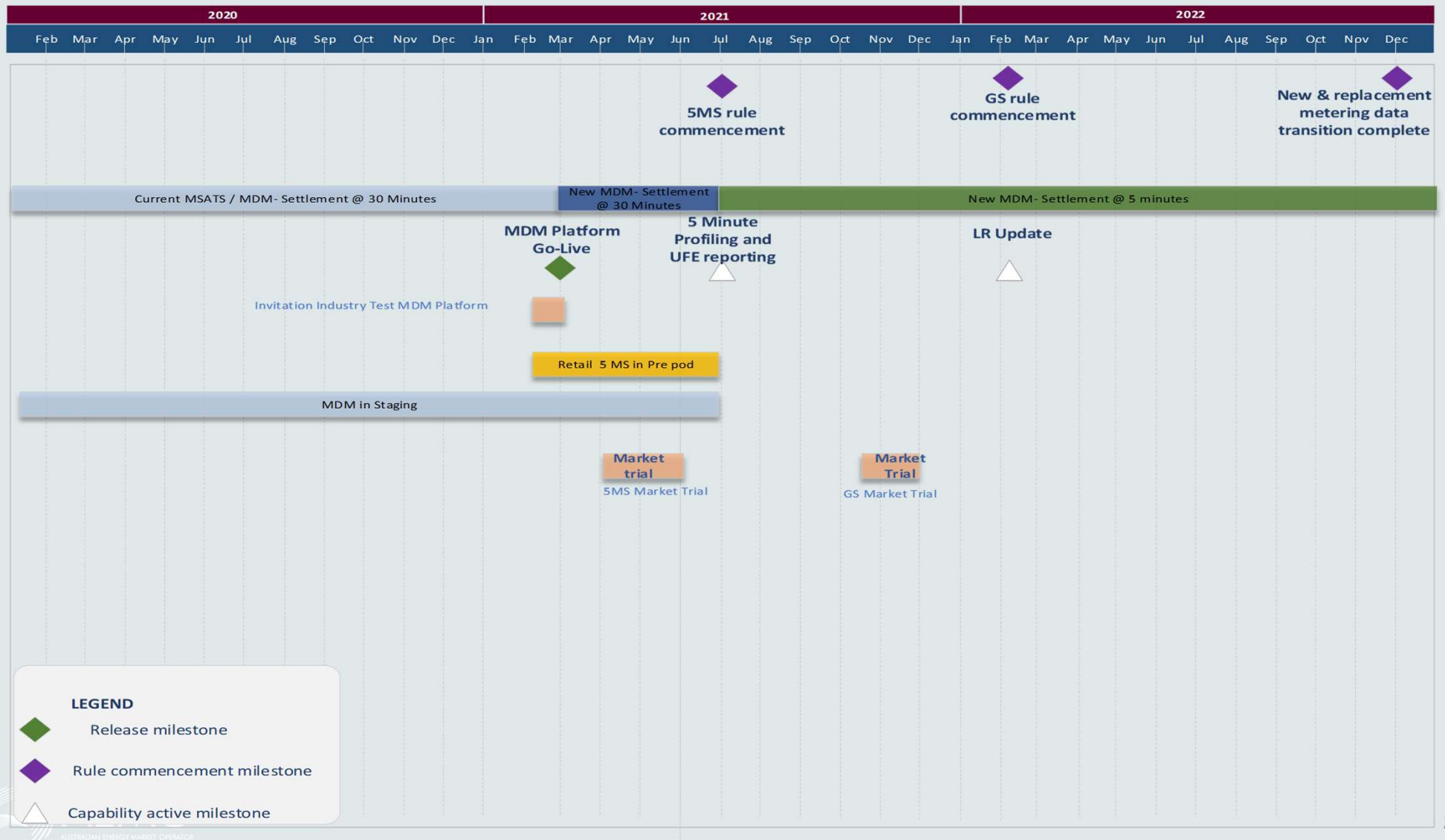
- Enables Settlements solution deployment work to complete before the Retail Production deployment begins. The Retail solution will have undergone a more fundamental change.
- Enables participant testing of the 30-min like-for-like solution outside the summer period but also an extended period of >2 months within the Pre-Production environment.
- Removes the Pre-Production deployment from Q1 2021, reducing system changes within that timeframe.



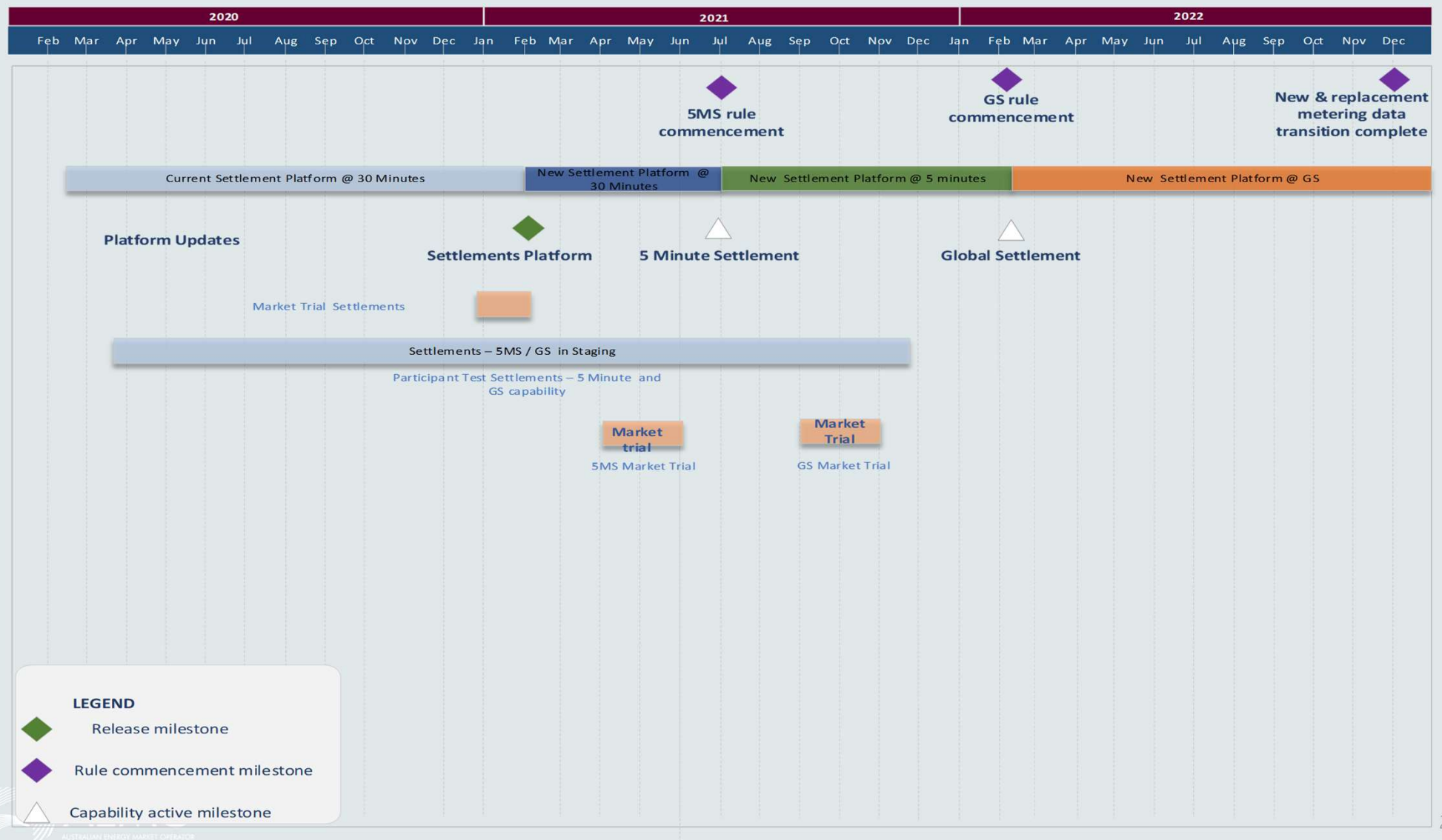
Replanning assumptions and rationale

- Replanning reflects delivery to support the current program and rule commencements
 - A rule deferral will not impact planned platform delivery timeframes.
- Phased transition approach for systems deployment will be maintained but reflect proposed order of deployment
- Industry Test and Market Trial strategy approach has been reconsidered to reflect the proposed deployment approach
- Industry test approach has been updated to incorporate:
 - Use of staging environment of participant testing included in approach to provide participant flexibility in development and testing
 - Industry testing window for bidding extended in line with proposed for Bidding/Dispatch and Settlements
 - Recognition of bi-lateral / Industry testing capability for retail stream in-line with the MDM deployment

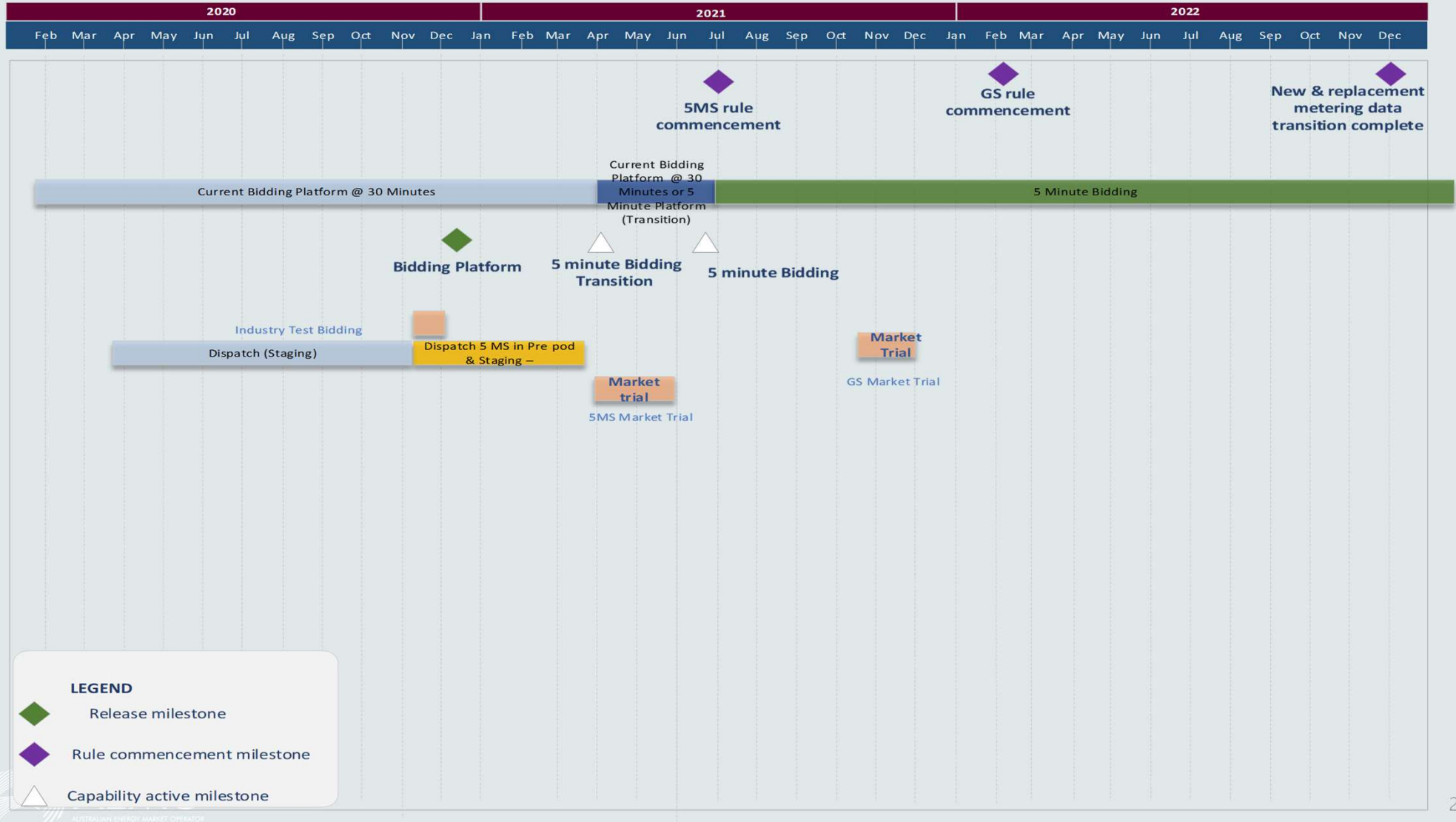
MDM deployment and testing



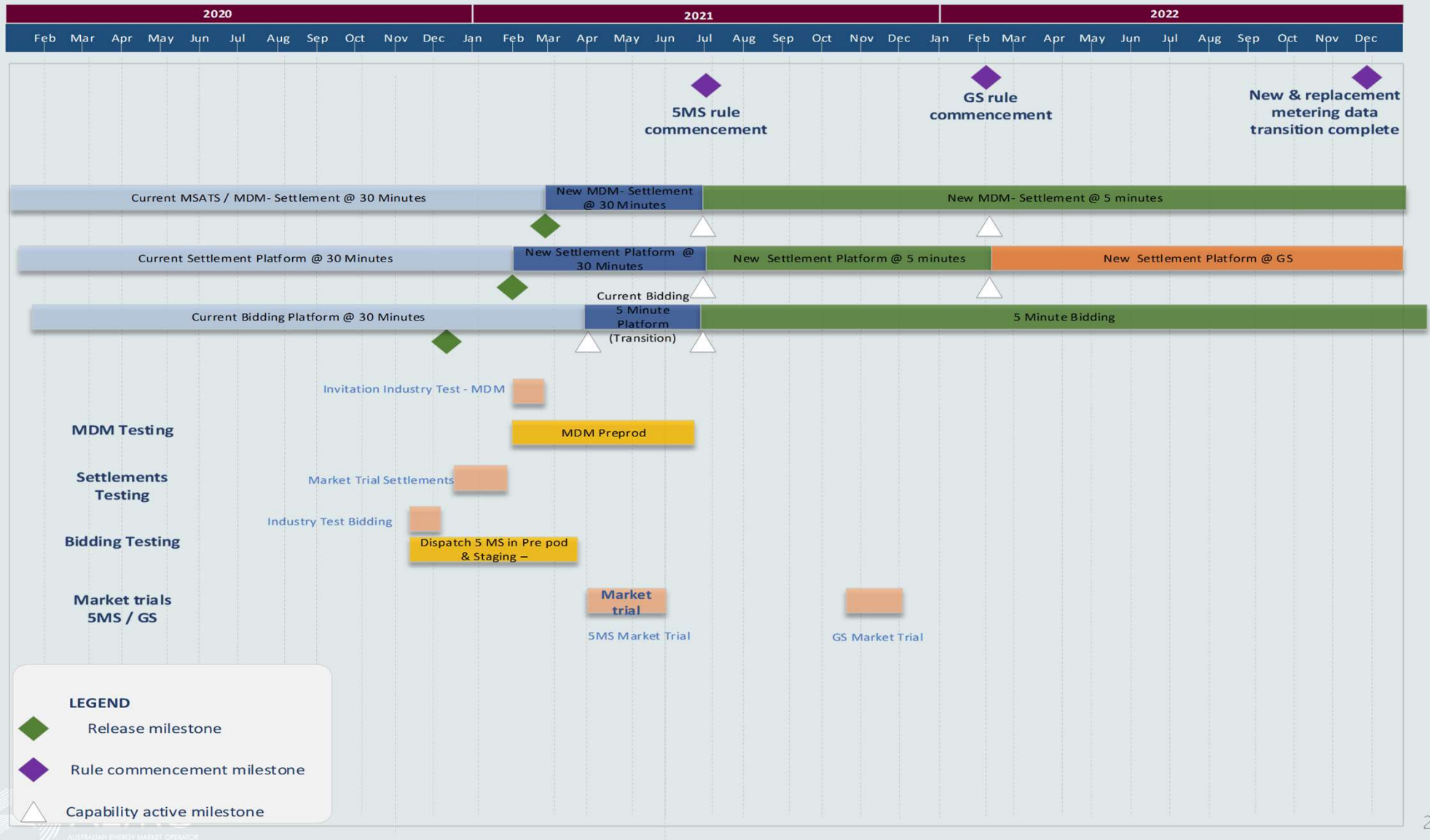
Proposed settlements deployment



Proposed bidding deployment



Overall proposed 5MS /GS Transition



Proposed transition approach for 1 July 21 commencement

Market system/ commencement	Change	Date	Description
Dispatch	Platform deployment	23-Nov-20	Deployment of 5MS Bidding Service in to production. Capability not available to Participants until 1-Apr-21
	Bidding transition capability	1-Apr-21	Activation of 5 Minute Bidding capability in transition Mode. Participants are able to submit bids using 5 or 30 minute bidding service. 5 minute bids must be the same across 30 minute interval
	5-min bidding capability	1-Jul-21	5 Minute bidding only accepted, 30 minute bids rejected
Settlements	Platform deployment (30-min mode)	15-Feb-21	New settlement platform deployed, settlement by difference performed @ 30 Minute interval
	5MS commencement: Switch to 5-min mode	1-Jul-21	Settlement by difference performed @ 5 Minute, UFE Reporting Commences
MDM	Platform deployment	9-Mar-21	MDM platform implemented with 5 minute capability, B2M activated, MDFF files for settlement., RM reporting Updated, profiling for settlement @ 30 Minutes
	5-min MDFF accepted by AEMO	1-Apr-21	Potential deferral of 5 minute settlement file acceptance for MDM operational stability. Participant impact requested
5MS commencement	5MS commencement	1-Jul-21	UFE reporting commences, 5 minute profiling of metering data for settlement, MDMT for interval meters rejected
Global settlement	GS commencement	6-Feb-22	Global Settlement with financial allocation of UFE, LR responsibility transferred to "GLOPOOL"

Market testing: definitions

Type of market testing	Description	Example
Industry testing	Self-testing of functionality such as connectivity, and/or coordinated multiparty testing of functional scenarios	Testing a change request (CR) or processing a reallocation
Invitation industry testing	Coordinated testing of business process scenarios with a select number or subset of participants with systems ready for testing.	Testing NMI transfer process
Market trial	Coordinated multi-party end-to-end testing of business process scenarios.	Meter exchange involving CRs, services orders and 5-minute meter reads

Proposed market testing approach (1/2)

Proposed go-live/ commencement	Previous test approach	Proposed test approach	Comment
Dispatch and Bidding	Market trials: both 5-min and 30-min functionality	Industry Testing: 5-min functionality only	<ul style="list-style-type: none"> Participants will be able to access, test and develop against the new 5MS functionality.
Settlements	Market trials: both 5-min and 30-min functionality	Market trial: 30-min only	<ul style="list-style-type: none"> AEMO will generate a full suite of invoices for 30 minute data Half will be produced using the existing MDM and the remainder using data from the new MDM. Updated Prudential data will also be made available to allow participants to fully test their solutions.
MDM	Market trials: both 5-min and 30-min functionality	Invitation industry Testing: 30-min only	<ul style="list-style-type: none"> Coordinated testing with MDP's to validate MTRD and MTMD transactions. Available for all other participants to verify reports, API's and schema testing.
5MS	Market trials: 5 minute capability across all streams	Market trials: 5 minute capability across all streams	<ul style="list-style-type: none"> Coordinated industry testing of bidding, dispatch, settlements and metering with all participants who want to take part Consistent with current planned scope and timing of 5MS capability market trial
GS	Market trials: GS with financial settlement	Market trials: GS with financial settlement	<ul style="list-style-type: none"> Coordinated industry testing of settlements and metering with all participants who want to take part Scope and timing as for the current approach

Proposed market testing approach (2/2)

- Staging availability for all streams
 - 5MS capability, interfaces and participant capability
 - Not fully integrated environment
- Pre-prod testing post platform deployment
 - Post platform deployment, pre-prod environment remains available for participant testing including bi- and multi-lateral testing

Impacts of proposed milestone changes

DISCUSSION

- Proposed test approaches in addressing changed deployments (see previous slides)
- Settlement market trial in mid-January 2021 for deployment in February 2021
- Deferral of AEMO's acceptance of 5-min MDFF files from 9 March until 1 April
- Bidding deployment into pre-prod in October 2020
- Impact of changed deployment order on participants' programs (if any)

AEMC UPDATE: Process for deferral rule change request

Rule change process – AEMC update

- To be provided during the RWG
- At time of distribution, AEMC have **indicated** the following **expected (but not confirmed)** dates for the rule change process:
 - Thu 14 May: Publish consultation paper
 - Thu 11 Jun: Submissions due on consultation paper
 - Thu 9 Jul: Publish final determination

BREAK

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Rule change: proposed 12-month deferral

Greg Minney

Background

- AEMO has submitted a rule change request to AEMC proposing:
 - 5MS commencement date for 5MS moves to 1 Jul 2022
 - GS “soft” start date moves to 1 Jul 2022
 - GS “hard” start date moves to 5 Feb 2023
 - No change to the 5-min data delivery date of 1 Dec 2022 for new and replacement type 4/4A meters
 - A transitional rule to allow AEMO to change the effective date of already-determined procedures (updated for 5MS and GS) without further consultation.

Impact to AEMO's 5MS program

- AEMO has reviewed the potential impact of the proposed 12-month deferral on the 5MS Program
- This review confirmed that the proposed deferral does not cause an impact to the approach or timeline for development activities
- Changes to timeline described in previous sections is not a result of the proposed 12 month deferral and will not be impacted by the AEMC's final determination
- Systems Impacts:
 - Reallocations solution would be updated to reflect any new 5MS commencement date
 - AEMO must ensure access to 5-minute functionality throughout the longer transition to account for the 'deploy-now' and 'defer' participant approaches. A combination of Pre-Prod and Staging is likely to be provided.
- However:
 - The systems will be deployed according to the described functionality, in-line with current systems timeframes – as mentioned Retail MDM timeline adjustment is not related to the 12-month deferral.
 - The backwards-capable design allows AEMO to independently switch on 5MS Capabilities without further releases of software (aside from when the bidding engine formally switches over to a 5-min market).

Approach to assessing industry impact

- To support participant impact assessment and response to proposed rule change the AEMO program will:
 - Develop “deferral scenarios” incorporating transition and participant testing, and metering transition approaches reflecting the proposed deferral (complete)
 - Engage the RWG and TFG to agree the scenarios to be used as a basis for participant impact assessment:
 - TFG session held on 06-May – focussed on the impacts to the MTP
 - This RWG #11 meeting (14-May)

Session objectives and assumptions

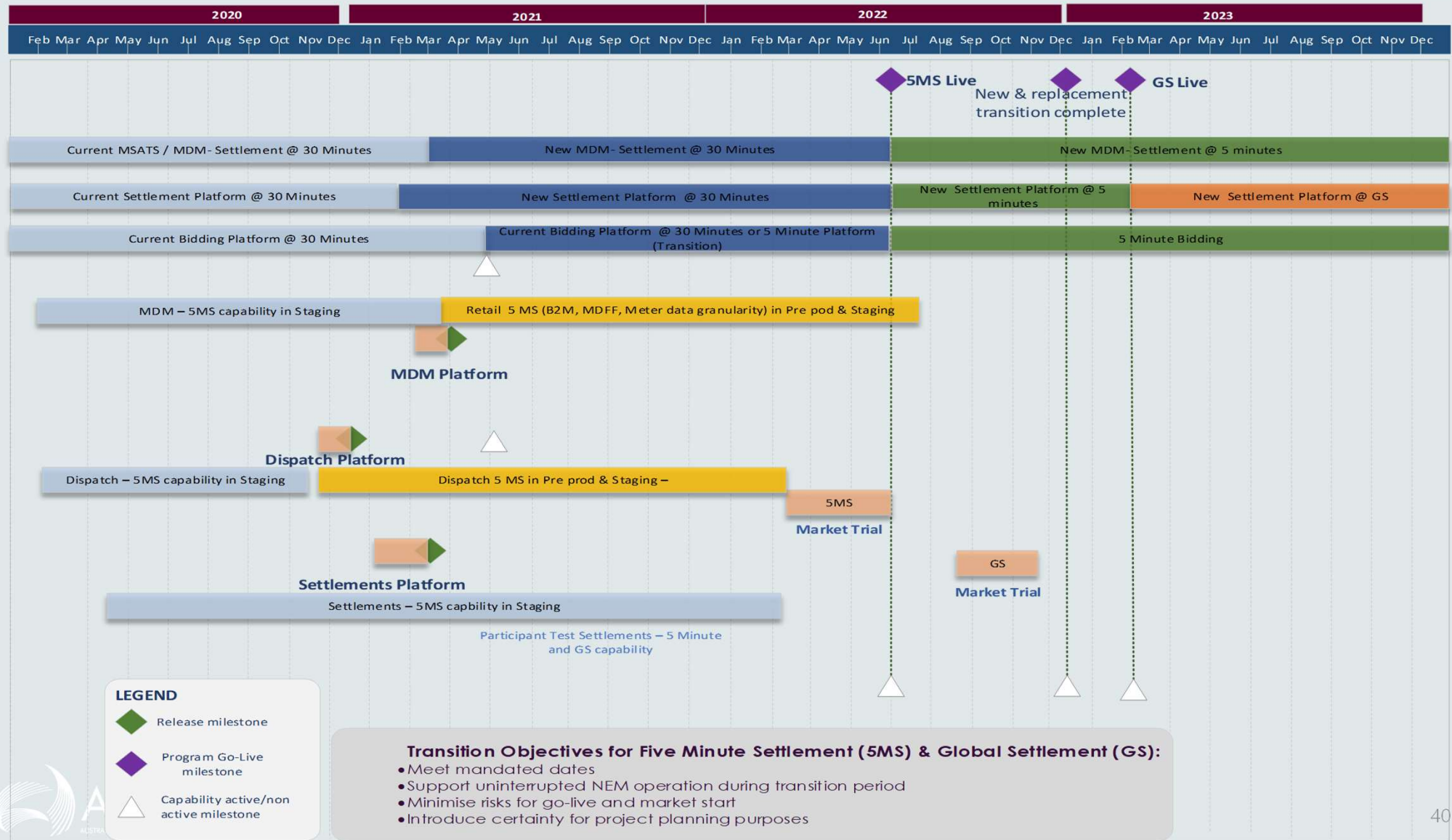
Session objectives

- Discuss, and where appropriate amend, the transition and testing scenarios that reflect the proposed 12-month 5MS/GS delay. The scenarios will:
 - Provide an understanding of the impacts and risks of the proposed delay as the basis for advice to the PCF
 - Support participants and AEMO in developing their own submissions to the AEMC rule change process based on a common scenario
- Discuss any capability limitations that may be required to manage extended transition periods.

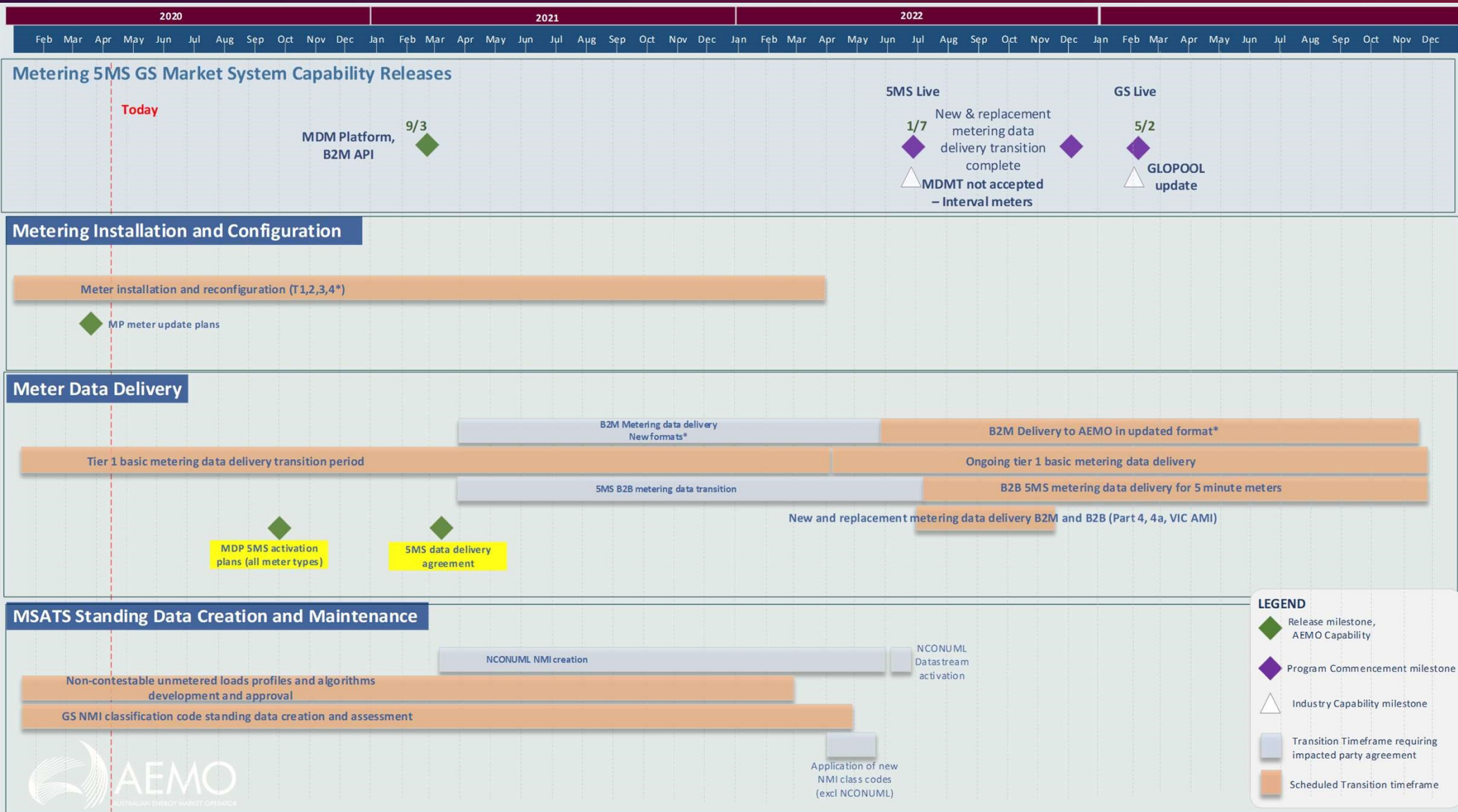
Assumptions

- Transition and testing scenarios to reflect the deferral timeframes proposed in the rule change request
- AEMO internal program continues to its current milestones i.e. staged platform deployments to support current 5MS timeframes, including new MDM deployment date.
- Participants should be provided with implementation flexibility where possible (5MS/GS *Transition and go-live strategy* principle) i.e. transition and testing scenarios should support participants' abilities to implement their programs **with or without** a deferral.

Deferral transition and testing approach



Proposed metering transition



Proposed transition approach for proposed 1 July 22 commencement

Slide updated

Market system/ commencement	Change	Date	Description
Dispatch	Platform deployment	23-Nov-20	Deployment of 5 MS Bidding Service in to production. Capability not available to Participants
	Bidding transition capability	1-Apr-21	Activation of 5 Minute Bidding capability in transition Mode. Participants are able to submit bids using 5 or 30 minute bidding service. 5 minute bids must be the same across 30 minute interval
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	5-min MDFF accepted by AEMO	1-Apr-21	Potential deferral of 5 minute settlement file acceptance for MDM operational stability. Participant impact requested
5MS	5MS commencement	1-Jul-22	UFE reporting live, 5 minute profiling of metering data for settlement
Global settlement	GS commencement	5-Feb-23	Global Settlement with financial allocation of UFE, LR responsibility transferred to "GLOPOOL"

Assumptions and rationale

- A single 5MS market trial will be scheduled for April 2022
 - In the lead up to the relevant 5 MS capability being implemented
 - Participant development and testing during the transition period will be supported through availability of testing environments configured to support 5 minute and GS market system capability
- The Industry testing approach for system deployments is as for the current program timeframes for timing and approach
- The transition windows for the take-up of available 5MS capability will reflect the extension of the rule commencement dates
 - Participants can progress capability deployment with the bi-lateral agreement of their market partners if required
 - 5MS Bidding Transition commences 1 April 2021
 - Metering Data delivery transition window commences 9 March 2021
 - Metering transition windows reflect the capability availability dates and the extended rule and procedural dates
- Multiple 5MS and GS market trials have not currently been proposed due to the uncertainty in the number of participants being ready to undertake co-ordinated testing at a point in time
 - Environment support is provided for those participants in a position to perform Bi / Multilateral testing

Discussion points

- Areas for discussion:
 - Industry Testing approach with extended timeframes
 - Transition windows for 5MS capability
 - Extent to which participant programs can be continued or deferred in line with principles
 - Other areas of capability required
- Participant considerations to be reflected in deferral scenario:
 - Ability to defer or continue programs to extent feasible
 - AEMO program continuing to current timeframes
- Feedback requested to AEMO by 22 May for consideration at PCF

“Minimum criteria” and 5MS go/no-go decisions

Greg Minney

“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
 - **Essential capability** for each major participant group to be in place at rule commencement
 - Essential capability is a subset of participant readiness criteria i.e. it is different from the **total** capability required for **compliance** with the 5MS and GS rules
 - Proportion of the identified participant group required to display essential capability (“critical mass”)
2. Assessed essential capability against system go-live and rule commencement decisions

“Critical mass” vs “minimum criteria”

- Results of analysis show the following “**minimum criteria**” for 5MS commencement:
 - AEMO must be ready, providing market systems to support 5MS and GS (bidding, metering, settlements)
 - “Essential” meters must be ready i.e. capable of producing and communicating 5-minute metering data. These are:
 - Transmission connected types 1-3 and subset of type 4 meters
 - Distribution to distribution cross-boundary types 1-3 and subset of type 4 meters
 - Generators must have the capability to submit 5-minute bids, either via their own facility or the AEMO web bidding interface
- All other functions are business as usual e.g. payment of settlement invoices
- Therefore there is **no “critical mass”** of participant types required for 5MS/GS commencements as:
 - Contingency arrangements have been agreed for essential meter installation/reconfiguration
 - Contingency arrangements have been agreed for essential meter metering data delivery
 - Generators are able to use the AEMO web bidding interface (basic functionality) to submit 5-min bids if their own systems are not ready

Essential capability

Critical participant type	Essential capability for 5MS/GS go-live	Monitoring	Available remedies
Generators / MNSPs	Capability to submit 5-min bids, including via AEMO web bidding interface if the participant does not have automated systems in place	<ul style="list-style-type: none"> Readiness reporting 	Individual follow-up Contingency responses, as per 5MS Industry readiness contingency plan
MPs MCs	Essential meters* reading and communicating 5-min data	<ul style="list-style-type: none"> Readiness reporting Accreditation updates 	
MDPs	Deliver 5-min metering data from essential meters*	<ul style="list-style-type: none"> Readiness reporting Accreditation updates 	

“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	23 Nov 20 TBC	<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	15 Feb 21 TBC	<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

Bidding transition plan approach

Emily Brodie

Background

- On 22 October 2018, the 5MS Dispatch Focus Group met and agreed an approach to the industry transitioning to 5-minute bidding.
- This approach has been the basis of AEMO's bidding system development.
- Details of the discussion can be found here: [Dispatch focus group notes](#) (slides 19 – 36)

Bidding transition developed by DFG (2018)

- Prior to 1/4/21:
 - Only 30-min bids may be submitted for any trading day
 - If a bid submitted prior to 1/4/21 applies to a trading day after 1/4/21, it will be converted into a set of 5-min bids.
- Between 1/4/21 and 30/6/21 (transition period), either 5-min or 30-min bids may be submitted:
 - If 5-min bids are submitted for a trading day **within the transition period** then the bids for each 5-min within each half hour **must be identical**, giving the same effect as the submission of a 30-min bid.
 - If 5-min bids are submitted for a trading day **after 1/7/21**, then the bids for each 5-min within each half hour **do not have to be identical**, allowing 5-min profiling of bids.
 - If a 30-min bid is submitted, this will be converted to a set of identical 5-min bids and stored that way. This applies equally to bids applying to trading days within the transition period and after 1/7/21
- After 1/7/21, only 5-min bids may be submitted. 30-min bids will be rejected.

Impact to bidding transition of proposed 12-month delay

- The proposed 5MS delay would:
 - Have no impact on the deployment timeframes of AEMO's 5MS bidding system changes:
 - Some bidding capability is already in the staging environment
 - Deployment into pre-production is on track for end of 2020
 - Deployment into production on track for 1 April 2021.
 - From 1 April 2021, 30-min capability will be available alongside 5-min capability until 5MS commencement.
 - Provide the option of extending the 5-min bidding transition period
- The DFG initially indicated that a transition period shorter or longer than 3 months would be undesirable:
 - This assumed that 5-min bidding would allow 5-min profiling of bids during the transition period, which is not the case
 - To be compliant with the NER, 5-min bids submitted for a trading day within the transition period must give the same effect as the submission of a 30-min bid i.e. the bids for each 5-min within each half hour trading interval **must be identical**.
- Propose a Dispatch Focus Group discussion around any impacts of changing the length of transition period on the basis that 5-min bids cannot be profiled within a 30-min trading interval prior to 5MS commencement.

BTP: Proposed objectives

- The Industry transition and go-live strategy objective for the 5MS and GS market reforms is:
to provide coordinated guidance to NEM participants on transition and go-live activities and schedules as they transition from current market arrangements to 5MS and GS.
- This objective supports, and is consistent with, the market readiness objective set out in the overarching 5MS and GS Market readiness strategy.
- The Bidding transition plan (BTP):
 - Supports both objectives by providing coordinated guidance on the bidding transition for 5MS and GS.
 - Outlines the expected responsibilities, activities, dependencies and timeframes for completion for elements of the bidding transition.

BTP: Proposed scope

In scope

- Transition to NEM 5-minute bidding by generators and MNSPs, as required by the 5MS rule

Out of scope

- FCAS bidding – not impacted by 5MS
- Changes other than bidding that are within the scope of the 5MS program
- Changes not related to 5MS that are made to support other NER or procedure changes

Industry transition and go-live strategy principles

The Industry transition and go-live strategy principles apply to the Bidding transition plan:

1. Mandated 5MS and GS commencement dates should be met
2. NEM operations should be uninterrupted during periods of transition and go-live
3. Market system go-lives and 5MS and GS commencement risks should be minimised
4. More certainty for participants' project planning should be introduced
5. Participants should be provided with implementation flexibility where possible
6. Participants and AEMO are responsible for their own transition and go-live planning

Proposed additional BTP principles

NEM participants and AEMO:

1. Will use the BTP as the basis of their implementation plans, and will develop individual plans that have regard to the key activities and dates set out in the BTP
2. Will complete their bidding implementation activities by the transition end dates outlined in the BTP
3. Must continue to fulfil all regulatory and compliance obligations during transition and system cutover periods
4. Are to communicate any issues with meeting their BTP responsibilities in writing as soon as possible

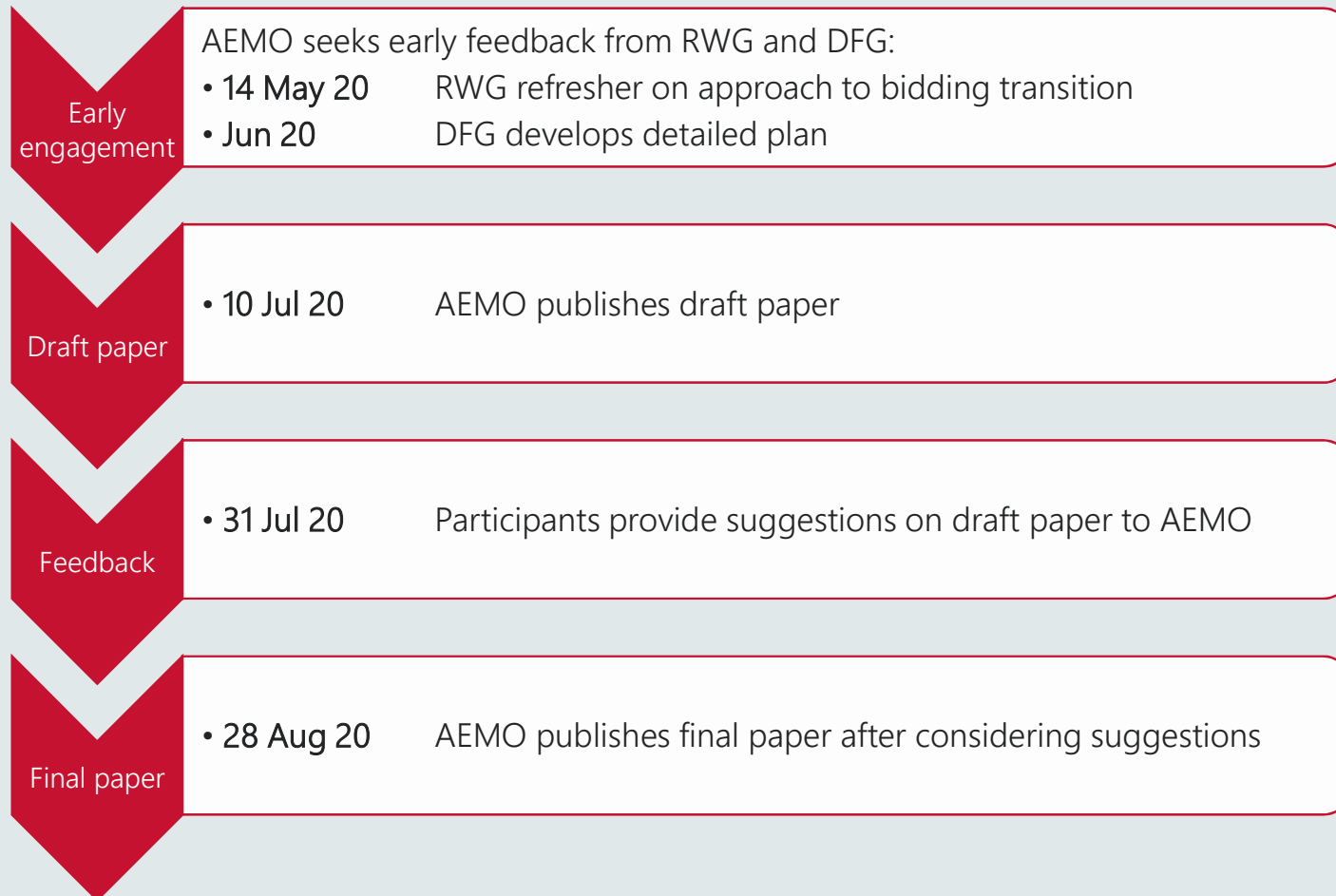
Next steps

- Feedback from RWG on proposed BTP structure
- Dispatch focus group workshop to:
 - Discuss transition approach
 - Populate BTP

Proposed BTP structure

#	Activity	Assumptions	Responsibility	Dependencies	Transition start date	Transition end date	Rule/procedure timing	Transition objective
1	Describes the Bidding transition activity	Lists any assumptions related to the activity	Assigns leadership and responsibility of the activity to a specific participant type	Lists any dependencies related to the activity	Lists the transition start date for this activity. When no transition start date is specified for an activity, participants may commence the transition at any time prior to the transition end date for that activity.	Lists the transition end date of this activity. It is expected that all relevant participants have completed the activity by this date.	Lists the commencement date of the 5MS rule requirement that the activity supports	Outlines the objective of the transition activity
2	EXAMPLE: Capability deployed for 5-min bidding (same 5-min bids within 30-min trading interval)		AEMO		1 Apr 2021	30 Jun 21 (TBC)	1 Jul 21 (TBC)	Enable 5-min bidding in the NER Enable transition period for industry
3	EXAMPLE: Testing...		AEMO, generators				n/a	
4	EXAMPLE: Convert default bids...		AEMO, generators					
5	ETC							

Consultation approach



Forward meeting plan

Greg Minney

Upcoming RWG meetings: Proposed content

- Consider having a standing agenda item on risks, issues and contingencies
- Seeking feedback for proposed content/topic areas

Meeting Date	Meeting	Proposed Content
10-Jun-20	RWG #12	<ul style="list-style-type: none">• Update on AEMO 5MS Program milestones• Review point for readiness reporting plan
Jul-20	RWG #13	<ul style="list-style-type: none">• Potential update on AEMC deferral determination (would need to shift RWG meeting date from 8-Jul to 10-Jul)• Risks and issues workshop• MDM platform cutover planning approach

Upcoming meetings

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

Current as 7 May 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
Reconciliation
Contingency
Industry Testing

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

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

General questions

Greg Minney

APPENDICES

A: Readiness milestones

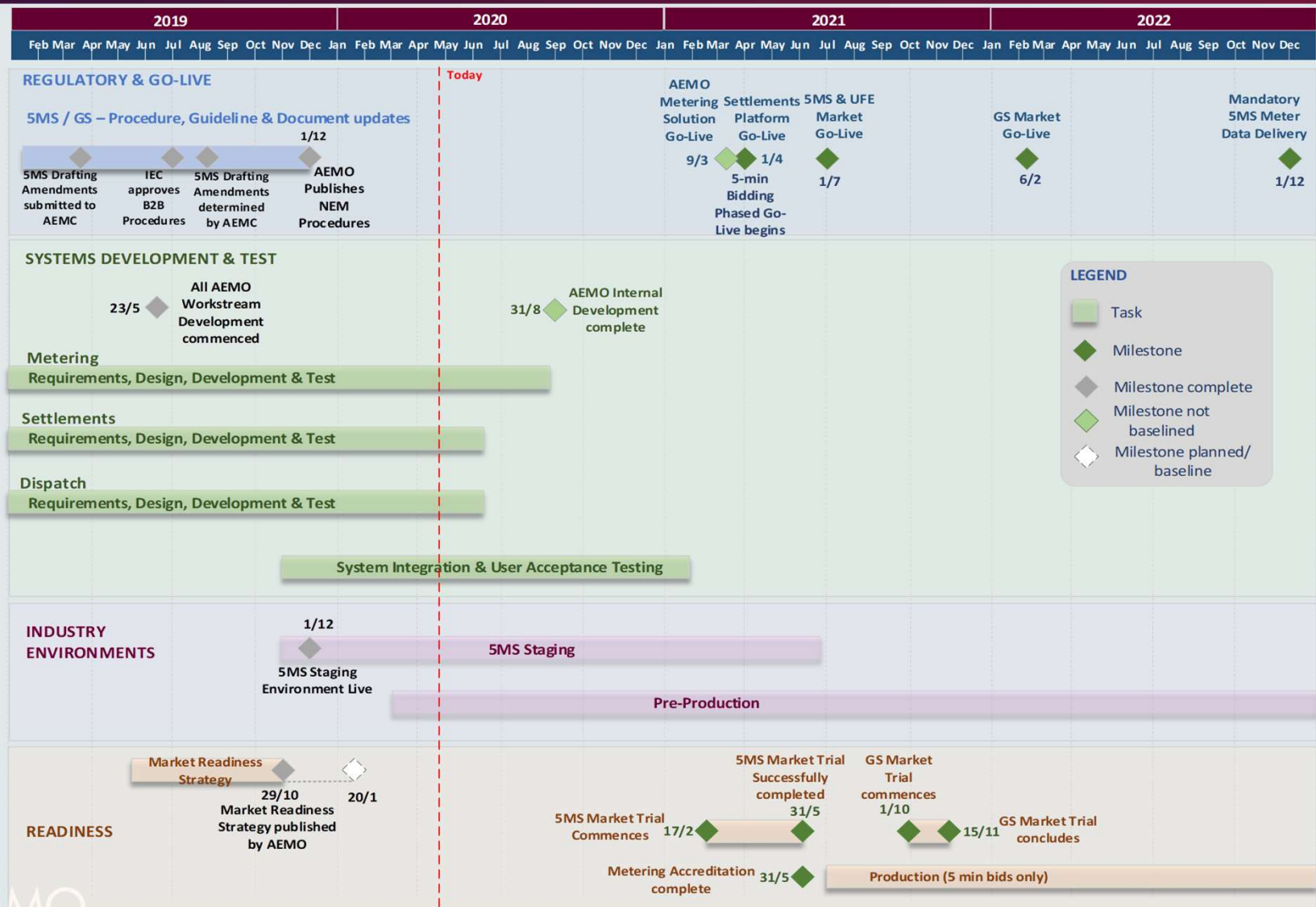
B: Industry readiness update

C: Metering procedure update

Readiness milestones

5MS & GS Program Timeline

Current as at 28-04-2020



Current as at 28-04-2020



Level 1 Milestones Change Report

Current as at 28-04-2020

Current L1 Milestone

ID	Stream	Milestone	Planned Date	Expected Date	%	Comments
L1-M6	Systems	AEMO Internal Systems Development – Build Complete	30 June 2020	See below	70%	Dispatch and Settlement on time. Metering solution development likely not to be fully complete by 30 June.

Issues impacting the delivery of milestone L1-M6

- Increase in complexity of the solution (under-estimation of effort in some areas)
- Technology issues which have impacted on productivity
- Security
- COVID-19

Mitigation & Consequence

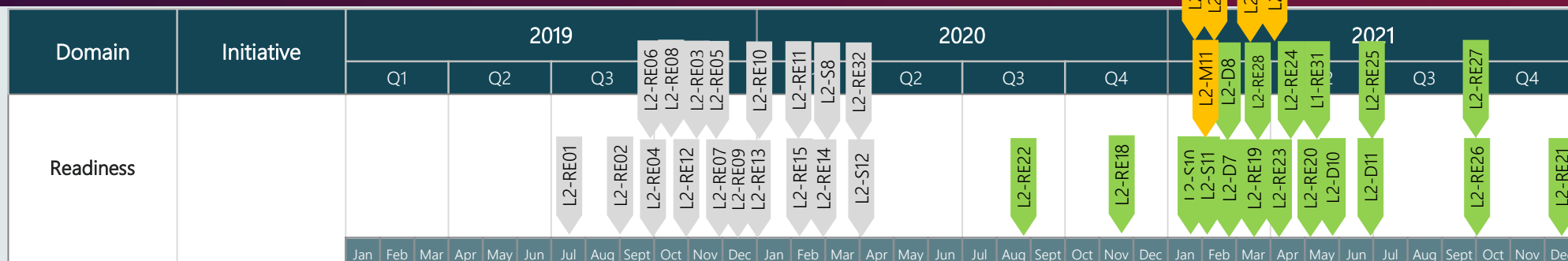
- AEMO considered the approach of prioritising the functionality required for L1-19 AEMO Metering Solution Go-Live on 7 Dec 2020. However, it was determined that this approach would not return the program status to green.
- On this basis, AEMO has determined that the milestone L1-M6 should be rebaselined to 31 August 2020 and consequently, milestone L1-19 AEMO Metering Solution Go-Live should be rebaselined to 9 March 2021
- AEMO will discuss the impact of this on related milestones at the PCF on 5 May

Changes to Milestones

ID	Milestone	Target Date	Expected 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

Level 2 Milestones – Readiness

Current as at 28-04-2020



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 28-04-2020

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-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	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-RE18	Industry Go-Live Plan Retail MDM finalised	20-Nov-2020	20-Nov-2020	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	
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 28-04-2020

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

Industry readiness update

Readiness stakeholder engagement (1/2)

Past events (since prior RWG meeting)

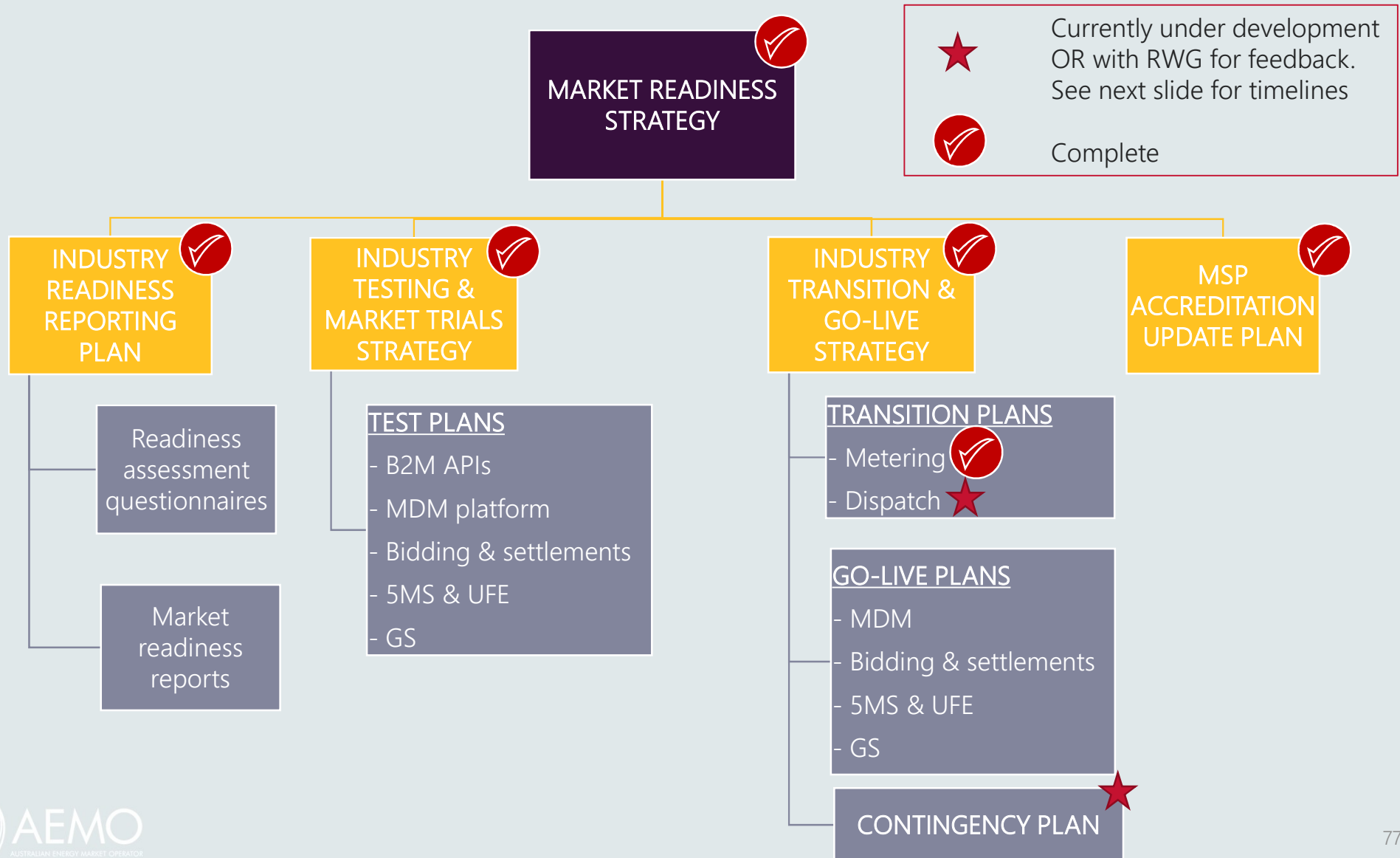
- Transition Focus Group #7
 - Wed 6 May
 - Webex
 - Considered: (1) MTP changes resulting from MDM milestone change and (2) MTP 12 month deferral scenario.
- 5MS Q&A session
 - Thu 7 May
 - Webex
 - For anyone with questions on the 5MS Program.

Readiness stakeholder engagement (2/2)

Upcoming events

- June: Proposed Dispatch Focus Group to discuss 5MS Bidding Transition Plan
- AEMO may convene out-of-session RWG, SWG and TFG meetings to respond as needed to the 5MS deferral proposal.

Readiness papers - status



Update on Contingency plan

- Feedback on second draft saw no shift in draft positions from Industry feedback
- Contingency plan is now near finalisation
- Discussion of move away from 'critical mass' metrics to 'minimum criteria' to be discussed in this RWG#11

Maintaining readiness papers

- Readiness papers will all need reviewing and updating to reflect:
 - Change to MDM milestone and any subsequent Dispatch and Settlement milestone changes
 - Any change to 5MC commencement date arising from the proposed deferral rule change request
- These will be tracked through the document control log

Readiness reporting - timelines

Readiness reporting	Survey released	Survey responses due	Distribute results	Discuss at RWG	Discuss at PCF	Discuss at EF
Round #1	05-Feb-20	14-Feb-20	2-Mar-20	11-Mar-20	05-Mar-20	12-Mar-20
Round #2	14-Apr-20	23-Apr-20	07-May-20	14-May-20	02-Jun-20	Proposed 11-Jun-20
Round #3	07-Jul-20	16-Jul-20	30-Jul-20	13-Aug-20	03-Sep-20	Proposed 07-Sep-20
Round #4	01-Sep-20	10-Sep-20	24-Sep-20	08-Oct-20	05-Nov-20	19-Nov-20
Round #5	03-Nov-20	12-Nov-20	26-Nov-20	09-Dec-20	tbc	tbc

	FEB			MAR		APR		MAY		JUN	JUL			AUG	SEP			OCT	NOV			DEC
Round #1	Wed 5 Feb	Fri 14 Feb	Fri 28 Feb	Thu 5 Mar	Wed 11 Mar																	
Round #2						Tue 14 Apr	Thu 23 Apr	Thu 7 May	Thu 14 May	Tue 2 Jun												
Round #3											Tue 7 Jun	Thu 16 Jun	Thu 30 Jul	Thu 13 Aug	Thu 3 Sep							
Round #4															Tue 1 Sep	Thu 10 Sep	Thu 24 Sep	Thu 8 Oct	Thu 5 Nov			
Round #5																			Tue 3 Nov	Thu 12 Nov	Thu 26 Nov	Thu 9 Dec

Survey released
Responses due
Results distributed
Discuss at RWG
Discuss at PCF

Metering procedures update

5MS/GS-related procedure change log

Procedure issue	Status
MDFF file size and transaction limit in file	<p>Initial feedback to first and second stage B2B procedures consultation showed majority support for:</p> <ul style="list-style-type: none"> MDFF file size 10MB MDFF 1,000 transaction limit in file non-contestable unmetered loads – use of existing B2B transactions for this family of NMIs <p>Third round of consultation occurring for other matters, however above matters are confirmed.</p>
Proposed procedural change to MDFF quality flag (N flag)	AEMO has submitted an ICF for ERCF consideration at March meeting (Thu 12 March). No objections presented at ERCF. Next steps: AEMO to compile a 'change information pack' for industry consultation for 15 May ERCF.
Proposal for RWD[?]	Meter read type code. Consultation on issues paper closed Tue 31 March. Majority of responses support the concept to identify interval length. Suggestions have been received on what format this should be provided in to MSATS. Draft determination will be published Thu 14 May 20.
Removal of end user details from inventory table	AEMO will progress consultation. Dates TBC, likely to begin Aug/Sep. Follow up with ERCF rep for details.
TNI 2 for cross-boundary meters	While Participants don't have to populate the TNI2 field (AEMO will, similarly to NSP2), they will have to ensure that their systems can receive TNI2. Part of MSATS Standing Data Review. Consultation on issues paper closed Tue 31 March. Majority of responses support AEMO's proposal. Draft determination due Thu 14 May 20.
Obligation for MC to provide updated or substitution data in the cases of theft or fraud	Original ICF lodged by AGL. Discussed at ERCF March meeting. Relates to UFE calculation. Next steps: distribution of amended ICF and supporting questionnaire.
Removal of register ID = suffix requirement	ICF lodged by AusNet to ERCF for its consideration at next meeting on Fri 15 May 20.
NCONUML objections to CR 2000/2001	ICF to be lodged by Origin. Gap in procedures to be filled. ICF proposes that if an LNSP sets up a new NCONUML NMI and assigns it to a contestable MC, then the contestable MC can object to it as the MC is always the initial MC.

Metering procedures update

Electricity Retail Consultative Forum - next meeting Fri 15 May 20

- 5MS/GS ICFs
- Update on MSATS standing data review
- ADL discussions - ongoing
- <https://aemo.com.au/Stakeholder-Consultation/Industry-forums-and-working-groups/Retail-meetings/Electricity-Retail-Consultative-Forum>

B2B Working Group - recent meeting Tue 5 May 20

- Second draft stage (3rd round) of release v3.4 of B2B procedures consultation. All initial response agree with proposals for:
 - MDFF file size 10MB
 - MDFF 1,000 transaction limit in file
 - non-contestable unmetered loads – use of existing B2B transactions for this family of NMLs
- <https://aemo.com.au/Stakeholder-Consultation/Industry-forums-and-working-groups/Retail-meetings/B2B-Working-Group>

