



5MS & GS Program Consultative Forum #35

Friday, 23 July 2021

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AEMO

Competition Law Meeting Protocol

AEMO is committed to complying with all applicable laws, including the Competition and Consumer Act 2010 (CCA). In any dealings with AEMO regarding proposed reforms or other initiatives, all participants agree to adhere to the CCA at all times and to comply with this Protocol. Participants must arrange for their representatives to be briefed on competition law risks and obligations.

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

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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

#	Time	Topic	Presenter
1	10:00 – 10:05	Welcome	Peter Carruthers
2	10:05 -10:10	Actions from Previous Meetings	Anne-Marie McCague
3	10:10 – 10:20	Readiness Dashboard	Greg Minney
4	10:20-10:25	Program Update	Rowena Leung
5	10:25 – 10:30	5MS Retail go-live	Graeme Windley
6	10:30 – 10:45	5MS Market Trial	Greg Minney
7	10:45 – 11:00	Participant Readiness	Greg Minney
8	11:00 – 11:10	Contingency Planning	Anne-Marie McCague
9	11:10 - 11:25	Market Start Notice	Greg Minney
10	11:25 – 11:35	Industry Risks and Issues	Anne-Marie McCague
11	11:35-11:40	Readiness Working Group and Executive Forum Updates	Anne-Marie McCague
12	11:40 - 11:45	Forward Meeting Plan	Anne-Marie McCague
13	11:45 - 12:00	General Questions	Peter Carruthers
14	12:00	Meeting Close	Peter Carruthers



Welcome

Peter Carruthers

Actions from Previous Meetings

Anne-Marie McCague

PCF Actions

No.	Status	Action	Comment
34.5.1	Closed	Participants impacted by the delay to the NCONUML delay to contact the 5MS mailbox to arrange a discussion on the timeline and volumes impacted.	Action will be closed but participants may still contact the mailbox.
34.5.2	Closed	AEMO to provide an update on the progress of NCONUML against the 26 July release date and to confirm a Go/No-Go in advance.	AEMO issued a note confirming that the NCONUML functionality will be deferred to 31 July. This date is final.
34.6.1	Closed	AEMO to include the Readiness Survey timeline in the Contingency Planning timeline.	This was completed for the Executive Forum and is included in this pack.



Readiness Dashboard

Greg Minney

Overall Market Readiness (as at 15 July)

On track	On track for commencement date
Risk to major milestones or deliveries	Remediation or contingency activation required to ensure on track delivery for Rule Commencement
Risk to rule commencement	Cannot be addressed with available contingencies to be on track for commencement date

Activity	Status	Trend	Comments
AEMO Business Readiness for 5MS and GS (Part A)	On-track	↓	<ul style="list-style-type: none"> Status: On-track <ul style="list-style-type: none"> All AEMO platforms are now in Production operating at 30 minute Settlement. Retail Platform deployed 21 June Market Trial scheduled for 19th July commencement Trend: down <ul style="list-style-type: none"> Heightened risk in Market trial execution AEMO's last platform (Retail) went live on the 21st June
Essential Industry Capabilities for 5MS commencement (Part A)	At-risk	↓	<ul style="list-style-type: none"> Status: At-risk <ul style="list-style-type: none"> Multiple MSPs plans reflect 20% tranche 1 meters made 5-minute capable post MTP completion date of 31 July, providing little schedule contingency for Metering Data delivery. Current plans satisfy compliance obligations but are late against MTP dates <ul style="list-style-type: none"> AEMO to engage the RWG to conduct detailed contingency planning for metering scenarios Generators “on-track” with individual program risks reported Trend: Down <ul style="list-style-type: none"> Multiple MSPs with limited contingency for meter capability upgrade and metering data delivery
Summary: Part A 5MS Rule Commencement Essential Industry Capability	On-track	↓	<ul style="list-style-type: none"> Status: On-track <ul style="list-style-type: none"> AEMO's Retail platform went live on the 21st June. All key 5ms platforms now in production Tranche 1 metering plans meet compliance obligations but have reduced schedule contingency in event of delayed delivery Trend: Down <ul style="list-style-type: none"> AEMO's Retail platform is now live, however, MSP time contingency has reduced with heightened risk profile
Other industry capabilities for 5MS and GS (Part B)	On-track	↓	<ul style="list-style-type: none"> Status: On-track <ul style="list-style-type: none"> Majority of Participants reporting their overall programs as on-track, but some Participants are now reporting some non-essential capabilities as at-risk or late Metering transition activities have heightened risk profile Trend: Down <ul style="list-style-type: none"> Increase in Participants reporting items at-risk or late compared to the previous readiness reporting round



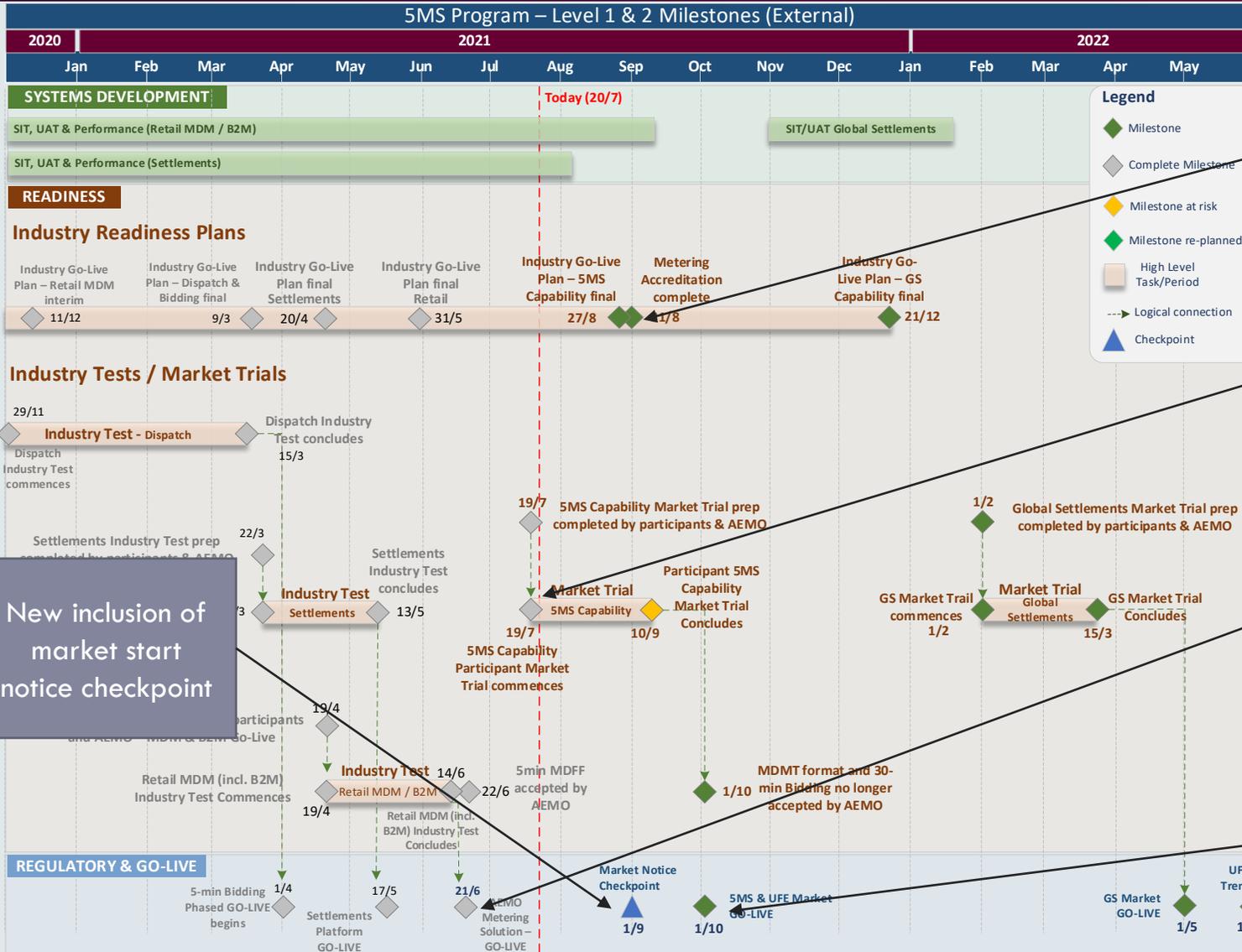
Program Update

Rowena Leung

5MS Program Timeline

Readiness and Go-Live

Current as at 22-07-2021



Drafting of the Industry Go-Live Plan – 5MS Capability has commenced. First draft will be circulated to RWG by 30 July.

Market Trial commenced on schedule. Week 1 is “shake out” week. Overall status is amber with known issues – to be discussed.

Retail Hypercare continues – see next section.

Overall, the AEMO 5MS program is green, on track for 1 October. If issues arise that compromise Market Trial start dates, status will be reviewed

New inclusion of market start notice checkpoint

Retail go-live debrief

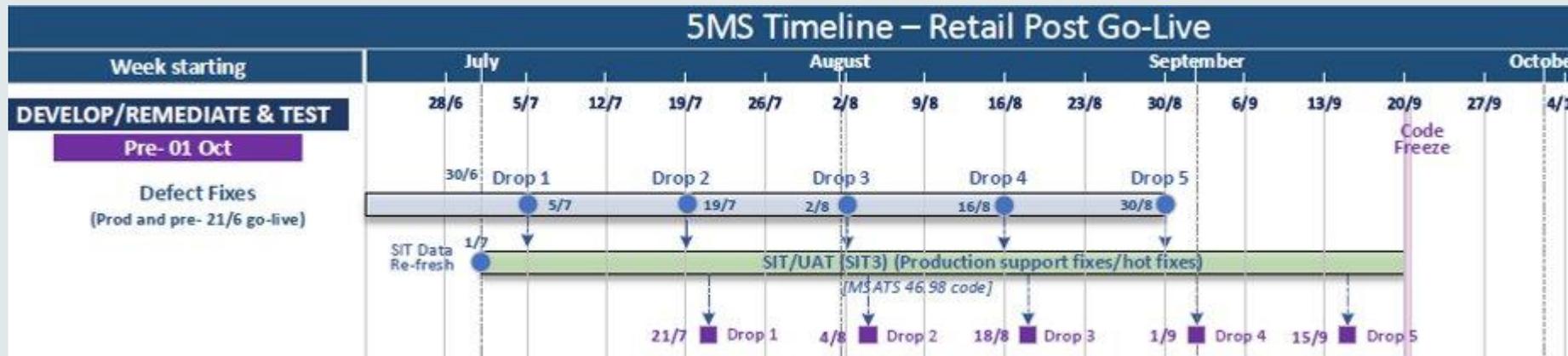
Graeme Windley

Retail post go-live

- Overall the 5MS Retail IT Platform is performing well however defects have been identified by industry. Recognise that this has created concerns for some participants.
- A prioritisation process is in place for defect releases, taking into account industry feedback and application of prioritisation criteria.
- Daily updated Retail Issues log is circulated to RWG, SWG & ITWG mailing list which includes the planned release date for defects.
- Twice weekly Retail Q&A session is available to industry to discuss new defects, the status of existing defects and the fix release schedule.
- Escalation process through 5MS mailbox established.

Approach to Defect Resolution

- The 5MS Retail Production Support team is planning on Releasing defect fixes on the following schedule:



- Five Drops into Production are planned up until the 1 October 2021 market go live. Drop 1 (keep process free for immediate Production urgent defects) and Drop 5 (any final market trial defects) will be kept as small as possible.
- Escalated releases may also be delivered outside of this schedule
- Release schedule for specific defect is listed in the Retail Issues Log



Market Trial

Greg Minney

Market Trial Preparations

Objectives:

- Provide participants opportunity to prove their updated systems against AEMO's market systems
- Test end-to-end scenarios in a co-ordinated trial of updated processes and procedures
- Contribute to assessment of overall industry readiness for rule commencement.

5MS Market Trial to be conducted 19 July – 10 September

- Scheduled scenarios commence 26 July
- 5-minute settlement scenarios commence 30 July
- Test scope expanded to include Market Intervention scenarios
 - To be scheduled for Early August, post transition testing

Approach:

- Overall schedule to reflect settlement operation during “transition week” and subsequent 5 minute operation
- Settlement runs to mimic production operation
- Key Market scenarios for industry transition to 5MS will be executed from 26 July
 - Address high impact market scenarios as early as possible in Market Trial execution period
 - 5-minute Bidding scenarios follow bidding transition approach
 - Prelim Settlement statements for week of transition
- Retail scenarios to support key participant process testing and verification
- Retail and metering processes incorporated subject to participant capacity
 - Meter Reads estimated where no actual reads provided

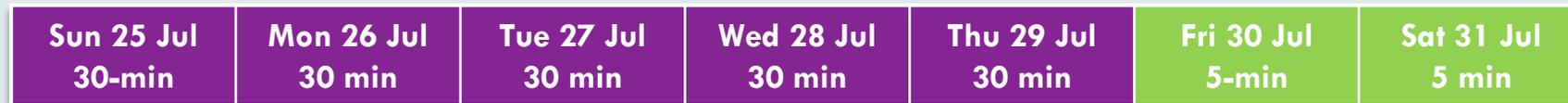
Transition from 30 to 5-minute settlement

Market trial schedule reflects transition from 30 to 5-minute settlement

- Overall schedule will reflect settlement operation during “transition week” and subsequent 5-minute operation.
- Alignment of bidding capability with Market trial schedule.



Market Trial emulation of transition - in pre-production →



Key Market scenarios for industry transition to 5MS will be executed from 26 July.

30-Jul will reflect operating conditions for 1 Oct (Full 5-min capability in **pre-production**)

- 5 minute bidding profiles
- Rejection of MDMT for interval meters
- Customer switching capability

Market Trial Initiation

Participant Engagement

- Daily Checkpoint Meetings have **commenced from Monday 19th July**
- 32 Organisations have **registered**
 - Selected scenarios have been loaded into practitest
 - Shakeout period in progress
 - Registration is now closed - Program will aim to accommodate those who still wish to participate

Management:

- Participant execution of selected scenarios
- AEMO reporting:
 - Test Status report issued each Tuesday and Thursday
 - Copy to be distributed to PCF / RWG members
 - Will cover Status, progress against key scenarios and issue progression

Preparing for Market Trial Week of 19th July

	Entry Criteria	Comment
	Confirm access to pre-prod	Complete
	Confirm in/out boxes are clean – in progress	In progress
	Confirm you are on the right Schema version for your testing and/or correct data model for wholesale	No requests raised
	Check any security access your test team may require to execute their tests i.e. folder access or only MSATS folder access etc.	All participants have verified MSATS access
	Confirm NMI lists with paired participants	In progress
	Confirm subscriptions in pre-prod wholesale to ensure you get all the reports you are expecting – no requests raised	No requests raised
	Confirm FTP and/or API access for your defined test scope – no requests raised	No requests raised
	Access online practitest training if required	Practitest training complete. Log-in requests near complete
	MDPs have commenced delivering generator reads	

Market Trial Issues

- Market Trial will progress as scheduled with an Amber status as a result of known defects and a heightened risk profile
- Known defects that may impact Market Trial:
 1. **End Date TNIs**
 - Description: Some end dated TNIs are incorrectly being included in the RM40 file.
 - Impact: UFE volumes will be incorrectly reported for those TNIs in the settlements statements
 - Resolution: Defect resolution in progress in lower environments, expected to be completed prior to market trial scenario
 2. **Single day profile**
 - Description: For transition week, PAE is required to run twice – once for 5 days of 30-mins and once for 2 days of 5-min. Currently PAE will only run for a minimum of 4 days. Fix is in progress.
 - Impact – the RM reports for the 5-min time period will overlap with the 30-min. Overlap won't be reflected in the settlement statements but will make it difficult to reconcile with the RM report
 - Resolution: Defect resolution in progress in lower environments, expected to be completed prior to market trial scenario
- Note: some current production issues will be reflected in Market Trial as they will not be fixed prior to commencement
- Heightened risk of issues occurring early in the Market Trial as a result of:
 - Testing of production defects in pre-prod
 - Unexpected data/environment issues encountered following the refresh has required time to resolve
 - Conflicting resource demands based on production support, Market Trial preparations and completion of testing including edge case

Key Market Trial Business Functions

Stream	Action	Owner	Status	Comment
Bidding	Verify successful submission of 5-min bids with varying underlying values	Generators		Green
Retail	Verify 5-min settlement (RM reporting)	Generators and Retailers		Impacted by Single Day Profile issue
Retail	Verify RM reports for UFE	Generators and Retailers		Impacted by End Date TNI issue
Settlements	Verify transition invoice – prelim and final	AEMO to send and Gens and Retailers to receive		Edge case testing not complete Impacted by End Date TNI issue
Settlements	Verify prelim for full 5-min week	AEMO to send and Gens and Retailers to receive		Green
Overall status				Amber, due to known issues and heightened risk profile

Next Steps

- Commence conduct of scheduled trial scenarios
- AEMO will provide twice weekly updates to the RWG and PCF on the progress of Market Trial
- These reports will include:
 - Update on the known defects impacting Market Trial
 - Summary of the test progress including key scenarios
 - Key risks, updates and remediation
 - Key issues identified through Market Trial



Participant Readiness

Greg Minney

Part A 5MS Essential Capability (as at 15 July)

On track	On track for commencement date
Risk 1 – Risk to major milestones or deliveries	Remediation or contingency activation required to ensure on track delivery for Rule Commencement
Risk 2 – Risk to rule commencement	Cannot be addressed with available contingencies to be on track for commencement date

Responsible Participant	Essential Criteria	Status	Trend	Comments
Generator	Generators and MNSPs are able to submit 5-min offers	On-track	➡	<ul style="list-style-type: none"> Status: On-track <ul style="list-style-type: none"> 18 Generators and MNSPs representing 93% of NEM volume reporting on-track <ul style="list-style-type: none"> Important participant previously not reporting status has commenced reporting against industry timelines Participants to consider contingency options in event of delays in systems deployment Trend: Neutral <ul style="list-style-type: none"> All respondents intend to participate in 5MS Market Trials 2 participants have now implemented their 5-minute bidding service, with 13 out of 16 generators intending to commence their implementations within the bidding transition period.
MP, MC, MDP	All essential meters* are able to produce and store and deliver 5-min data	At-risk	⬇	<ul style="list-style-type: none"> Status: At-risk <ul style="list-style-type: none"> 6 MSPs are reporting late against MTP transition end dates regarding the installation and delivery of metering data for essential meters, however on track for meeting compliance requirements 20% of essential meters (including SGA) scheduled for update in August and September. Contingency options being pursued Trend: Down <ul style="list-style-type: none"> Reduced time contingency associated to the installation and metering data delivery of essential meters
AEMO	The 5-minute bidding and dispatch solution, including the web bidding interface is deployed	On-track	➡	<ul style="list-style-type: none"> Status: On-track <ul style="list-style-type: none"> Platform deployed in 'Bidding Transition' configuration Additional capability on track for implementation prior to 1 October Trend: Neutral
	The Metering Data Management (MDM) solution is deployed	On-track	⬇	<ul style="list-style-type: none"> Status: <ul style="list-style-type: none"> Retail Platform deployed into Production on 21st June 5-minute metering processes to be verified during 5MS Market trial Trend: Down <ul style="list-style-type: none"> Heightened risk in Market Trail Retail platform deployed successfully
	The 5-minute settlements solution is deployed	On-track	➡	<ul style="list-style-type: none"> Status: On-track <ul style="list-style-type: none"> AEMO's Settlement Platform successfully deployed 17th May, to support 30-minute settlement 5-minute settlement processes to be verified during the 5MS Market trial Trend: Neutral
Summary - Essential Criteria		On-track	⬇	<ul style="list-style-type: none"> Overall, essential criteria to support the 5MS rule commencement is considered to be on track. Trends reflect the reduced time contingencies for the installation and delivery of Tranche 1 5-minute metering data

Part B – Other Industry Capabilities

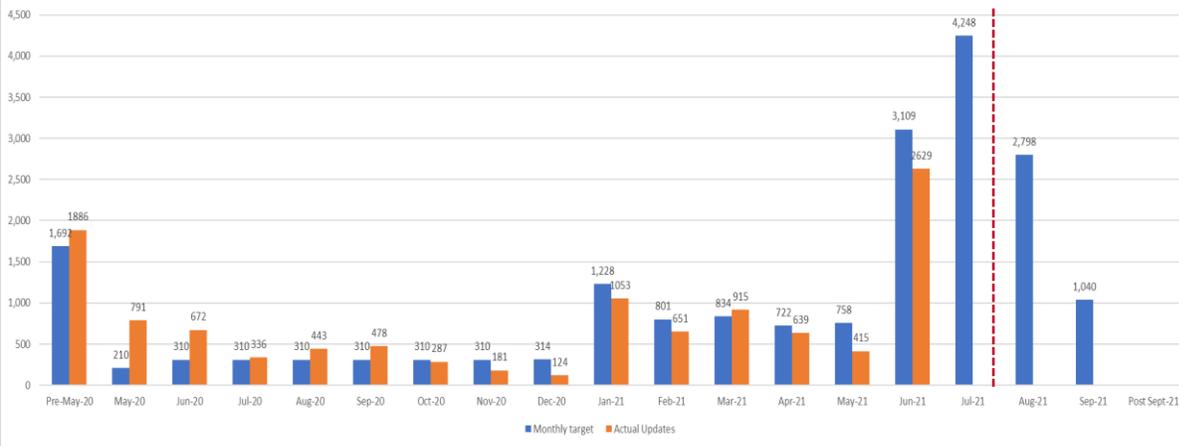
(as at 15 July)

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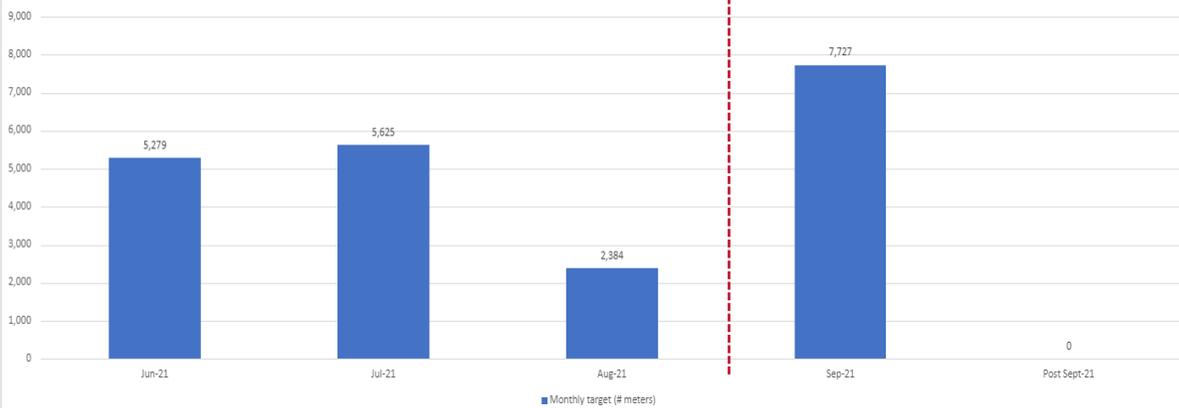
Responsible Participant	Criteria	Status	Trend	Comments
Retailer	Receive and process 5-minute metering data. Receive and process 5-minute settlement data.	On-track	↓	<ul style="list-style-type: none"> Status: On-track <ul style="list-style-type: none"> 18 out of 20 retailers reporting their overall programs as on-track 17 out of 20 retailers planning on participating in the 5MS Market Trial, with 2 reporting participation at risk Trend: Down <ul style="list-style-type: none"> 2 retailers reporting late for the processing of 5-minute metering data and 2 for the processing of 5-minute settlement data
DNSP	Receive and process 5-minute metering data.	At-risk	↓	<ul style="list-style-type: none"> Status: At-risk <ul style="list-style-type: none"> Multiple DNSPs are reporting at risk or late for numerous GS related items, including: <ul style="list-style-type: none"> Cross boundary supplies, 2 reporting at-risk or late NCONUML, 3 reporting at-risk or late There will be an impact on the UFE values initially published for those profile areas, overall impacts to be established and remediation/management options developed Trend: Down <ul style="list-style-type: none"> Increased occurrence of at-risk or late items being reported, impact is to initial UFE accuracy
	Provide GS metering and standing data updates (incl. NCONUML).			
TNSP	Receive and process 5-minute metering data	On-track	→	<ul style="list-style-type: none"> All TNSPs reporting their overall programs as on track 2 out of 6 have the intention to receive 5-minute metering data prior to the Rule commencement date
	Provide GS metering and standing data updates			
MDP	Provide 5-minute metering data T1-3 distribution connected meters, type 7 meters.	On-track	→	<ul style="list-style-type: none"> Status: On-track <ul style="list-style-type: none"> 13 out of 16 MDPs reporting as on-track, representing approx. 95% coverage of Tranche 1 meters 16 out of 16 MDPs reporting on-track for the delivery of 5-minute metering data by 1 October Trend: Neutral
	Provide type 4, 4A, Vic Ami metering data at 5-minute granularity by 1 December 2022			
	Provide basic metering data for tier 1 NMIs to AEMO.			
MP, MC	All T1-3,4* meters are able to produce and store 5-minute data.	On-track	↓	<ul style="list-style-type: none"> 19 MPs servicing tranche 1 meters reporting as on-track against compliance requirements with up to 4200 installations planned for August, September Approx. 70% of tranche 1 meters currently 5-minute capable, noting the impact on essential meters are part of the rollout, are provided by Participants
Summary – Other Industry Capabilities		On-track	↓	<ul style="list-style-type: none"> Overall, on-track for 5MS rule commencement. Trending down due to the increased number of at-risk and late activities being reported

Tranche 1 Metering Risk

Planned Tranche 1 installations vs Actuals
(as at 1 July 2021)



5min Metering Data Delivery
(as at 1 July 2021)



Essential Metering Upgrade

- Updated MSP metering rollout plans have scheduled > 20% of Tranche 1 Meter upgrades in August and Sept leaving little schedule contingency for Data Delivery
- Essential Meters (Transmission connected) are included in this rollout (approx. 3000)
- Currently there is no effective contingency if 5 minute metering data is not available for these meters at 1 October:
 - 5 Minute settlement will not be able to be performed
- Risk highlighted at Executive Forum and 5MS WGs
- Actions underway:
 - Identification of upgrade status of all essential meters (w/b 19 /7)
 - Participant request to prioritise upgrade of yet to be upgraded essential meters – with follow up reporting
 - Investigation of potential Participant contingency approaches (e.g. use of available SCADA data for generator meters)
 - Investigation of potential AEMO contingency approaches requiring consideration of technical capability and regulatory support

5 Minute Metering Data Delivery

- MSP plan to commence delivery of 15% of tranche 1 metering data during September
- Includes 4 MDPS with Essential Meters for delivery
- Increases delivery and timing risk for Settlement runs post 1 October
- Actions underway:
 - Identification of participant contingency approaches for impacted participants (e.g. alternate delivery approaches for available metering data)
 - Investigation of potential AEMO contingency approaches requiring consideration of technical capability and regulatory support

Current Situation Essential Meter Rollout

(Based on meter level plans provided by MPs over the last week)

Category	Total Meters	5min Capable	Scheduled for July	Scheduled for August	Scheduled for September	No plan provided
'System Load'	2107	1879	131	92		5
Generators	943	724	191	25	3	
Interconnectors	9	8		1		
SGAs	692	50	35	607		
Transmission Connected Customers	57	45	12			
Total Meters	3808	2706	369	725	3	5
% of Total Meters		71.06%	9.69%	19.04%	0.08%	0.13%

Contingency Planning

Anne-Marie McCague

Precautionary Rule Change Request – alternative rule commencement dates (1 / 2)

- AEMO held Regulatory Implementation Roadmap Forum on 9 July.
- The Regulatory Implementation Roadmap session covered 2 main topics
 - Regular implementation update of all regulatory initiatives
 - Review of impacts to other regulatory initiatives for a 5MS contingency scenario (delay to 5MS start date)
- AEMO proposed 29 November for the purposes of discussion to identify the impacts a change in the 5MS rule commencement date would have on other regulatory initiatives.
- 29 November was selected for discussion because:
 - 2 months delay is a realistic period if a short delay is needed
 - It is a Monday and aligns with the proposed electricity and gas B2B changes go-live
- AEMO proposed that if this scenario was to materialise, Customer Switching and WDR would also commence on 29 November
- Global Settlements soft-start would stay aligned to 5MS commencement and GS commencement would remain at 1 May 2022 as feedback from PCF generally suggested that a transition period of at least 5 months was acceptable.
- Feedback from the Regulatory Implementation Roadmap Forum was requested by 16 July

Precautionary Rule Change Request – alternative rule commencement dates (2/2)

Factors Influencing an Alternative Date

- Delayed benefit to reform implementation
- Impacts to costs and resourcing for participant implementation programs
- Consequential impacts to other programs – regulatory and business initiatives
- Change freeze period of 15 Dec to 29 Jan
- Heightened level of business activity during summer period
- Alignment to a quarter for managing financial contracts

Alternative Start Date Options

- AEMO preference for short delay (i.e. in 2021), lowers the impacts
- If an issue arises that is more complex and requires more time to remediate, AEMO is proposing two options for consideration:
 - 1 Feb 2022 – implements 5MS as soon as possible after the change-freeze period
 - 1 April 2022 – commences on a quarter and avoids busy summer period, but adds another 2 months extension and has more significant impacts for 2022 regulatory implementation program.

Next Steps

- AEMO will submit a Rule Change Request (RCR) to AEMC **no later than 2 August** regardless of the status of the 5MS Program. This approach is being taken as an “insurance policy” against an issue arising that will impact 1 October 2021.
- Stakeholders will have **4 weeks to respond** to the AEMC consultation process from the date of publication (expected to be 5 August)
- As previously discussed, participants **should assume** that 5MS will commence on 1 October unless explicitly communicated by AEMO
- AEMO will publish a market start notice (see next section) **no later than 1 September**. This will be a go/no-go status against 1 October.
- If a no-go status is provided, **AEMO will advise** of the issue causing this status, the length of time needed to remediate the issue and the suggested alternative start date.
- AEMC will publish the **Final Determination** with the 5MS rule commencement date on 30 September 2021.



Market start notice

Greg Minney

Readiness assessment

ESSENTIAL CAPABILITY

AEMO Capability

Metering Platform: Is deployed and has stable business operation

Settlements Platform: Is deployed and has stable business operation

Bidding Platform: The 5-minute bidding and dispatch solution, including the web bidding interface is deployed and has stable business operation.

Essential metering

All essential meters* are able to produce and store 5-min data

All essential meters* are able to deliver 5-min metering data

Bidding

Generators and MNSPs are able to submit 5-min offers

CRITERIA

Metering Platform:

- Receive and process 5 minute metering data.
- Support 5 Minute Profiling / UFE

Settlements Platform: Support 5 Minute Settlement processes

Bidding Platform:

- Support 5 Minute Bidding Services
- Provide 5 Minute Bidding interface

MP's upgraded ensured that essential meters are capable of providing 5 minute metering data

MDPs are able to provide 5 minute metering data for essential meters for settlement

Generators are capable of providing 5 minute bids

SUPPORTING ASSESSMENT

Market Trial

Production Operation

Market Trial

Independent Certification

Production Operation

Market Trial

Production Operation

Market Trial

Metering Data Delivery

Meter Rollout Plans & reports, MTP delivery

Participant Readiness Reporting

Market Trial

"Transition bidding"

Participant Readiness Reporting

OTHER PARTICIPANT CAPABILITY

Retailer

Capability to operate retail functions in place

DNSP

Metering and Standing Data capability in place to support GS and 5MS

TNSP

Metering and Standing Data capability in place to support GS and 5MS

MDP

Metering Data delivery compliance requirements met

MP

Meter upgrade compliance requirements

Generator

Generators and MNSPs are able to submit 5-min offers

CRITERIA

- Receive and process 5-minute metering data
- Receive and process 5-minute Settlement statements

- Receive and process 5-minute metering data

- Provide GS Metering and Standing Data updates (inc. NCONUML)

- Provide 5-minute Data T1-3 Distribution connected metering data
- Provide T1 Basic Metering Data
- Provide MDFF Interval Data / Inc

- Provide 5 Minute metering Data (4, 4A, VicAMI)
- T1-3 distribution connected meters capable of producing 5-minute Data

- Submit 5-minute bids
- Process 5-minute settlement and metering data

SUPPORTING ASSESSMENT

Participant Readiness - Reporting

Market Trial

Bi Lateral Testing

Participant Readiness - Reporting

Market Trial

Rollout Plans & reports, MTP delivery

Bi Lateral Testing

Participant Readiness - Reporting

Market Trial

Rollout Plans & reports, MTP delivery

Bi Lateral Testing

Participant Readiness - Reporting

Market Trial

Rollout Plans & reports, MTP delivery

Bi Lateral Testing

Participant Readiness - Reporting

Market Trial

Rollout Plans & reports, MTP delivery

Participant Readiness - Reporting

Market Trial

“Transition bidding”



Industry Risks and Issues

Anne-Marie McCague

Industry Risks and Issues - Trend

- **The purpose of this session is to discuss changes to the key risks and issues**
- **The risk review will take into account the three key areas of risk:**
 - Retail delay
 - AEMO and industry readiness
 - Volume of regulatory change

Retail Risk and Issue



ID	Description	Rating	Mitigations
113	<p><u>Delay to NCONUML Functionality in Production</u> The delay to the release on the NCONUML functionality in production has resulted in some participants reporting activity “Population and activation of NCONUML NMs and Associated Metering Data Delivery from 1 Oct” as at risk/ late. This may cause a compliance risk for those participants.</p>	Medium	<ul style="list-style-type: none"> • Reduced from High to Medium as effective remediation plan is in place. • AEMO has confirmed that NCONUML functionality will be available from 31 July • The requirement to populate NCONUML NMs is governed under the AEMO procedures. • Participants impacted by the deferral of this functionality should contact AEMO and provide a reasonable plan to complete the required related tasks and the volumes of NMs that will not be available on 1 October
R33	<p><u>Further delays to AEMO Retail Systems impact 5MS rule commencement critical path</u> There is a risk that cutover issues or post go-live issues cause delays that impact on Market Trial start date thereby impacting the critical path to 5MS rule commencement (01-Oct-21)</p>	Significant 	<ul style="list-style-type: none"> • Residual Likelihood – unlikely • Residual Consequence – extreme • Residual rating – significant • Trend: worsened – reflecting the heightened risk profile associated with Market Trial • Risk description has been updated to reflect the 21 June go-live of Retail Platform • Refer to Contingency Plan.

AEMO & Industry Readiness



Risk ID	Description	Residual Rating	Comments
R34	<p><u>Delay to AEMO 5MS Retail impacts participants readiness</u> There is a risk that the delayed availability of the 5MS Retail solution impacts participants readiness programs resulting in delays in some participants programs.</p>	<p>Significant</p> <p>↔</p>	<ul style="list-style-type: none"> Residual Likelihood – remains as possible. Residual Consequence – remains major Residual rating – remains significant Trend: changed from worsened to neutral Daily updates are provided on post go-live issues and defect fix schedule.
R11	<p><u>The AEMO business and operations are not ready for 5MS Rule Commencement on 1 Oct 21</u> The AEMO business may not be ready to deliver the full extent of the 5MS deliverables by 5MS and GS rule commencement including business processes and resource training, results in failure of Go Live for 5MS and GS Program</p>	<p>Medium</p> <p>↓</p>	<ul style="list-style-type: none"> Residual Likelihood – remains as unlikely Residual Consequence – remains as major Residual rating – remains as medium Trend: worsened – noting the heightened risk profile associated with Market Trial AEMO progresses with Retail releases and Market Trial commences as scheduled
R19	<p><u>Risk of a critical mass of participants not being ready at identified critical path milestones</u> Critical capability of participants fail to meet expected industry Readiness critical path milestones, resulting in failure to be ready for go-live and impacting the proper functioning of the market.</p>	<p>Significant</p> <p>↓</p>	<ul style="list-style-type: none"> Residual Likelihood – changes from unlikely to possible based on the Readiness Reporting Round 8 responses Residual Consequence – remains as major Residual rating – changes from medium to significant as a result of increased likelihood Trend: worsened Current schedules have reduced or eliminated the schedule contingency for the upgrade of a number of essential meters, with no effective contingency solution currently fully available in event of non-delivery

Volume of Regulatory Change



Risk ID	Description	Residual Rating	Comments
R06	<p><u>Interaction with other industry changes that have already been adopted through rule changes</u> Significant regulatory changes across the energy sector will stretch resources allocated to market change programs, resulting in potential impacts to participants resourcing and program delivery.</p>	Significant 	<ul style="list-style-type: none"> No change to risk since last review. Residual Likelihood – remains as possible Residual Consequence – remains as major Residual rating – remains as significant Trend: neutral
R09	<p><u>Impact to 5MS from other rule changes that are being considered</u> Future rule changes could affect the implementation of 5MS, resulting in impacts to industry program implementation timelines</p>	Medium 	<ul style="list-style-type: none"> Residual Likelihood – remains as unlikely Residual Consequence – remains as major Residual rating – remains as medium Trend: improving as no further rule changes are being considered close to 1 October that would impact 5MS.
R30	<p><u>Risk that new 5MS and GS Go-Live dates could impact other industry change programs</u> The new commencement dates are closer to some other industry change programs. There is a risk that industry and AEMO resources and systems may be constrained during a period of multiple major go-lives which may lead to difficulties with timelines and system stability.</p>	Medium 	<ul style="list-style-type: none"> Risk refers to change of 5MS commencement date to 1 October 2021. If commencement date changes then a risk review would be required. Currently the risk of the date moving is covered by R33. No change since last review Residual Likelihood – remains as unlikely. Residual Consequence – remains as major Residual rating – remains medium Trend: neutral



Are there any new risks or issues to be raised?

RWG & EF update

Anne-Marie McCague

Readiness Working Group update

Last RWG held on 6 July 2021. Key items discussed include:

- Program update
- Retail debrief and Participant input into PIR
 - Retail Production Support and approach to defect resolution with **five drops** into Production planned up until the 1 October 2021 market go live.
- Market trial and industry testing update
 - Including how to prepare for this activity and what support is available
- NCONUML compliance and progress
 - Advising the RWG it will be delayed and detailing the issue, impacts and mitigation strategy
- Readiness reporting and Actions
- Contingency plans and triggers - metering – essential meters and bidding – participant scenarios

Executive Forum update

Last EF (#13) held on 7 July 2021 and key items discussed include:

- Readiness Dashboard
 - Highlighting AEMO and Market Readiness. AEMO 'green – on track' and Industry 'amber – at risk' for the first time for 31 July (MTP schedule) but 'green – on track' for 1 October.
- Program Update
 - Including the Retail IT Platform Go-Live on 21 June.
- Retail Go-Live Debrief
 - Highlighted some of the key issues with the Retail Platform release, current workarounds and the current approach to working with participants to prioritise defect fixes.
- Readiness Reporting Round 8
- Market Trial Preparation
- Contingency Planning
 - Presented approach to contingency planning including the timeline for the Rule Change Request
 - Confirmed rule change request would be submitted by 2 August as a precautionary measure regardless of program status
 - Market Trials, metering rollout and participant readiness were essential capability that could impact market start.

Executive Forum Schedule

- Next session scheduled for 29 July. Purpose of this schedule was to assess the need for raising a rule change request. AEMO is proposing to cancel this session since it was confirmed at the last EF that the rule change request would be submitted regardless of the program status.
- 30 August – to discuss and assess readiness for the market start notice.



Forward Meeting Plan

Anne-Marie McCague

This table provides a list of key topics. The normal updates will also be provided at each PCF. This table will evolve as the year progresses.

High-Level Plan for 2021

Month	Topics	Month	Topics
January	<ul style="list-style-type: none"> ✓ AEMO go-live decision making process ✓ Risk Review ✓ Readiness and go-live dashboard 	17 June	<ul style="list-style-type: none"> ✓ Market Trial prep status ✓ Retail Cutover Preparation Status ✓ Contingency Planning
18 February	<ul style="list-style-type: none"> ✓ Retail Solution Status ✓ Exec Forum Agenda 	23 July	<ul style="list-style-type: none"> ✓ Market Trial progress ✓ Readiness Reporting #8 ✓ Debrief on Retail Go-Live ✓ Contingency Planning
18 March	<ul style="list-style-type: none"> ✓ Dispatch Cutover Preparation Status ✓ Readiness Reporting #6 ✓ Retail Checkpoint Criteria – assessment and outcomes ✓ Retail Pre-prod – status and go/no-go date ✓ Retail Production go-live – checkpoint date and criteria ✓ Settlements Certification Process Conclusions 	19 August	<ol style="list-style-type: none"> 1. Market Trial progress 2. Risk Review – focus on rule commencement 3. Exec Forum Agenda
23 April	<ul style="list-style-type: none"> ✓ Debrief on Dispatch go-live ✓ Settlements Cutover Preparation Status ✓ Risk Review ✓ Retail Checkpoint Criteria – assessment and outcomes ✓ Retail Production go-live – confirmation of go/no-go date 	16 September	<ol style="list-style-type: none"> 1. Results of Market Trial 2. Preparing for 1 Oct – Ind Go-Live Plan review 3. Readiness Reporting #9
19 May	<ul style="list-style-type: none"> ✓ Readiness Reporting #7 ✓ Exec Forum Agenda ✓ Retail Production: Confirming go/no-go ✓ Contingency Planning 	22 October	<ol style="list-style-type: none"> 1. Debrief and reconfirmation of approach for Global Settlements

Upcoming Meetings

AEMO | Program Calendar and Timelines

Current as at 11/05/2021



JULY

Su	Mo	Tu	We	Th	Fr	Sa
				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

AUGUST

Su	Mo	Tu	We	Th	Fr	Sa
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				

SEPTEMBER

Su	Mo	Tu	We	Th	Fr	Sa
			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		

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

Focus Groups
Transition (TFG)
Market Trial (MTFG)

Other
Information sessions
Q&A session
Industry Test
Training 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