

# 5MS & GS Program General Information Session

16 July 2021

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# Welcome and Introduction

Peter Carruthers – Business Advocate (Chair)

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# Purpose of the Information Session

The general information session provides an opportunity for stakeholders who:

1. Are not directly engaged in the 5MS Program to receive an **update** on the Program's progress and an **insight** into the key areas of focus.
2. Have not previously engaged with the 5MS Program to receive a high-level **introduction** to the Program.

# Call to action



Contact us:  
[5MS@aemo.com.au](mailto:5MS@aemo.com.au)

- The intention of this session is to provide an introduction the impacts of the five-minute settlement and global settlement rules and an overview of the readiness activities and support that is available until 5MS rule commencement on 1 October 2021.
- It is the responsibility of each registered participant to review the impact of these rules on their organisation.
- After this session:
  - ✓ Check the 5MS and GS rules to confirm that your organisation understands the changes that are required for 5MS on 1 October 2021 and GS on 1 May 2022.
  - ✓ Confirm that your organisation has an appropriate readiness plan in place.
  - ✓ Use the 5MS Program website to access information on procedure and systems changes.
  - ✓ Contact AEMO at [5MS@aemo.com.au](mailto:5MS@aemo.com.au) to provide us with an update on readiness if you have not already participated in Readiness Reporting
  - ✓ Send AEMO any questions you may have, or request join a working group or find out more about testing.

# Topics covered during this session

## **Recap on the 5MS and GS Rule and Program**

Anne-Marie McCague –  
Stakeholder Engagement  
Lead

## **AEMO 5MS Program Update**

Rowena Leung – Program  
Director

## **How are market participants impacted by the 5MS and GS rules?**

Greg Minney – Readiness  
Manager

## **5MS Capability Market Trials**

Greg Minney – Readiness  
Manager

## **Industry Readiness – how is the industry progressing?**

Greg Minney – Readiness  
Manager

## **Contingency Planning**

Peter Carruthers –  
Business Advocate

# Questions & Feedback

Feel free to ask questions throughout the session via:



- WebEx comments

For more detailed questions, or for any further questions you may have after the session, or to provide engagement feedback, email:

- [5ms@aemo.com.au](mailto:5ms@aemo.com.au)

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# Recap on the 5MS and GS Rule and Program

Anne-Marie McCague – Stakeholder Engagement Lead

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# 5MS Background

## WHAT?

The [AEMC announced](#) a final rule to:

1. Reduce the time interval for financial settlement in the NEM from 30 minutes to five minutes (5MS).
2. Introduce a 'global settlement' framework for settlement of the demand side of the wholesale electricity market. Moving away from the settlement-by-difference approach and the concept of a Local Retailer.

## WHY?

### 5MS rule change:

- The AEMC rule change aligns the market's price signal with the dispatch of the physical electricity system, which occurs every 5-minutes.

### GS rule change:

- Global Settlement is an alternative methodology to settlement-by-difference, where unaccounted for energy (UFE) costs are distributed equitably across all retailers.

**i** Refer to the [AEMC's Information sheet](#) for a full list of expected benefits as a result of these rule changes.

## HOW?

- AEMO is responsible for implementing the 5MS and GS rules and has established the **Five-Minute Settlement (5MS) Program** to manage this activity.
- The 5MS Program is working with industry to ensure these rules are in place and participants are ready, by the rule commencement dates.
- Industry engagement and consultation is managed by industry working groups and forums.

## WHEN?

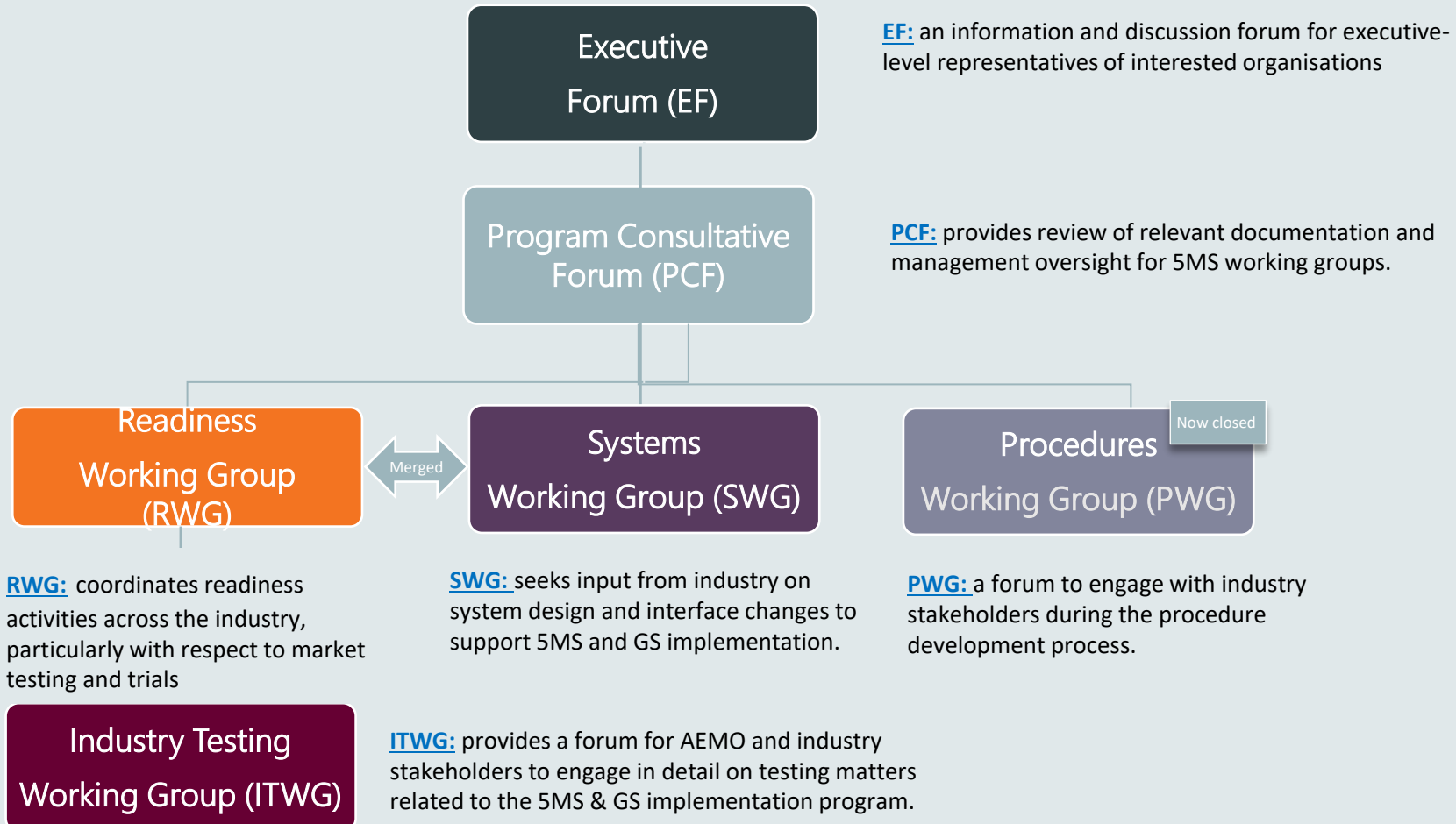
### Rule Commencement Dates:

- **1 October:** Full commencement of 5MS and the soft start of GS
- **1 May 2022:** Full commencement of GS.



# Industry Engagement Framework

Engagement between AEMO and industry is crucial to the 5MS Program's success, which is why each 5MS workstream has been aligned to an industry working group.



# Added support meetings we are hosting

General Q&A Sessions  
(Monthly)

Retail Production Q&A  
(2 x Weekly)

Capability Market Trial  
Planning  
(Daily)

Ad-hoc meetings with  
participants

- These meetings and frequencies change as our releases and milestones are reached and to cater for the needs of participants.
- Click here to find out more about [AEMO 5MS Industry Working Groups](#) and [calendar](#).
- If you are interested in attending any of our working groups or meetings email [5ms@aemo.com.au](mailto:5ms@aemo.com.au)

# AEMO 5MS Program Update

Rowena Leung – Program Director

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# 5MS Roadmap

AEMO is working with industry to implement changes arising from an AEMC Final Determination to implement Five-Minute Settlement (5MS) and Global Settlement (GS) rules.



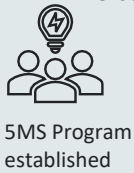
6-Dec 2018: AEMC made GS rule



Industry Working Groups established



28 Nov 2017: AEMC made 5MS rule



5MS Program established



8 Aug 2019: AEMC Amended the 5MS & GS rules to improve and clarify



1 Apr 2020: Reallocations go-live

3-month deferral

9 Jul 2020: AEMC delayed both 5MS & GS rule by 3 months

Industry testing starts:  
- 29 Nov 20 (Dispatch)  
- 22 Mar 21 (Settlements)  
- 19 Apr 21 (Retail)

Testing



21 Jun 2021: MDM system go-live



1 Apr 2021: 5-minute Bidding  
17 May 2021: Settlement solution go-live

5MS Market Trial

19 Jul to 10 Sep 2021



1-Sep: Market Start Notice



1-Oct: 5MS rule commencement

GS Market Trials

GS 1-Feb to 15-Mar 2022

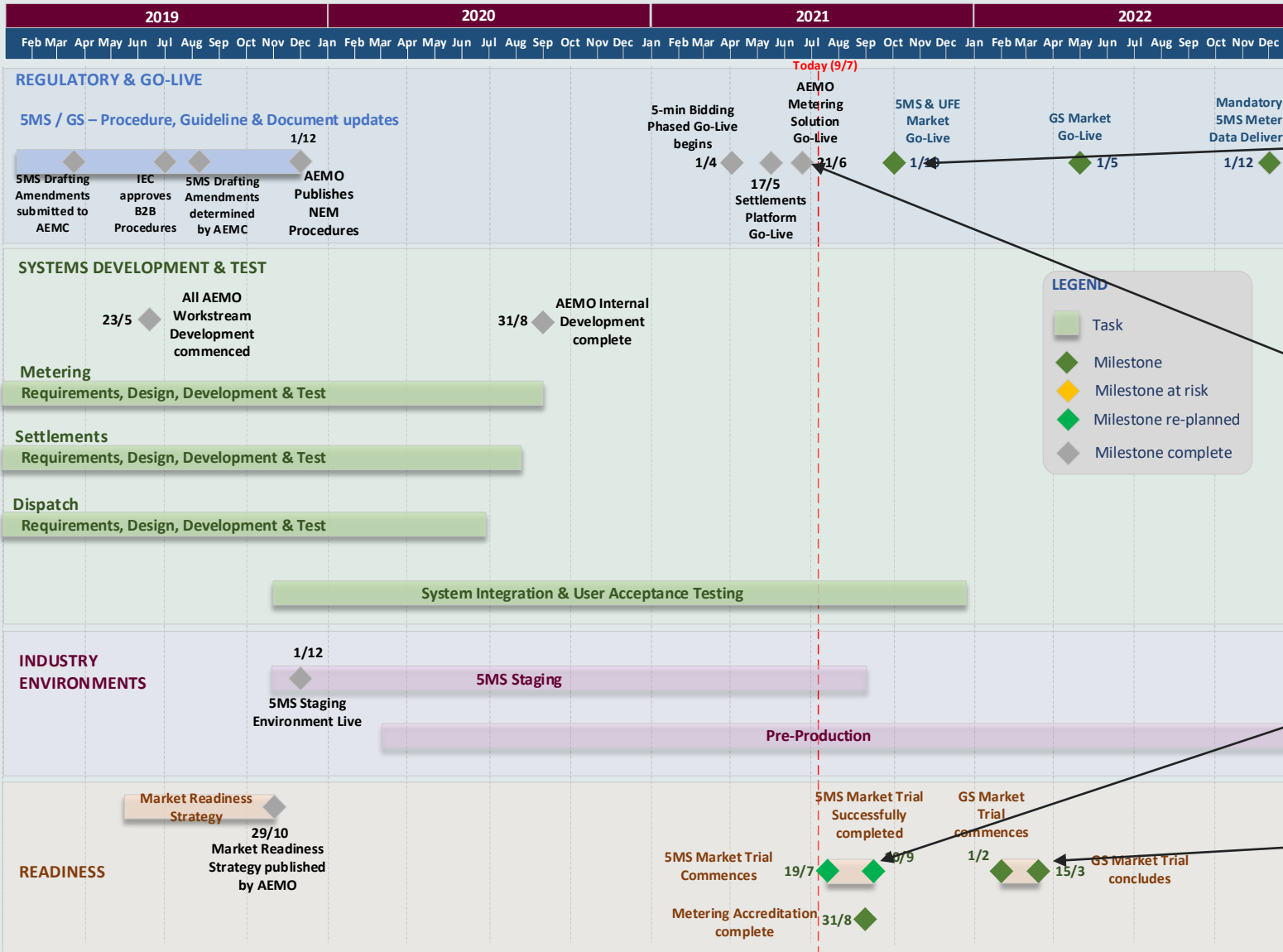


1-May: GS rule commencement

## Key Messages

- The 5MS Program is **on track** for the rule commencement on 1 October 2021.
- A **Go/No-Go status** against 1 October will be **published on 1 September 2021**.
- It is anticipated this status will confirm 1 October unless an unforeseen critical issue arises during 5MS Market Trial (see later slides for contingency approach).
- **Detailed planning** for GS Market Trials and readiness support will be discussed with the 5MS working groups.

# AEMO's 5MS Program Timeline



Green, on track for 5MS Rule Commencement on 1 October 2021. Risks and pressures exists which are being managed through contingency planning

All 3 major systems go-lives have been completed. Currently in the Retail hypercare period. Daily reporting on issues with twice weekly meetings with industry including defect fix release schedule.

5MS Capability Market Trial commencing on track on 19 July. 31 participants registered to take part.

Dates for GS Market Trials to be finalised with RWG

# What's available in AEMO's production environment now?

## Bidding

- 5MS Bidding Service
- Transition period Participants can submit six equal 5-min bids that will emulate a 30-min bid.
- Participant Data model to support 5-min bids and offers
- Unique 5-min bids may be submitted from 00:01 on 1 October 2021

## Retail

- Metering participants can submit meter data in 5-min, 15-min **and** 30-min granularity
- Updated RM Reports supporting
- B2M via API capability
- Updated NMI Classification Code.

## Settlements

- 5MS capable Settlements system is live and operating in 30-min.
- Participants may submit reallocations for the period post 1 October 21 in 5-min granularity.
- Updated Prudential's dashboard
- Version 5.0 of participant data model, to support 5-minute settlement

# Next Steps for AEMO

- **Execute** 5MS Capability Market Trial with industry
- **Close** open Retail issues in line with defect fix schedule
- **Complete** Readiness Reporting Round 9 in August
- **Issue** market start notice on 1 Sep
- **Commence** operating in 5-min mode from 00:01 1 October 2021 and including UFE in settlement statements
- **Set out** detailed readiness approach for Global Settlements hard start on 1 May 2022



# How are market participants impacted by the 5MS and GS rules?

Greg Minney – Readiness Manager

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# What is changing?

## 5MS

- Bids/offers will be submitted in 5-min granularity
- Meters will need to read and send 5-min data
  - All type 1,2,3 meters by 01-Oct-21
  - Transmission connected Type 4 by 01-Oct-21
  - Type 7 supplies
  - Type 4 and Vic AMI meters by 1 Dec 2022
- Settlement will be on a 5-min basis
- Reallocations need to be on a 5-min basis

## Global Settlements

- Unaccounted for energy (UFE) will be allocated to all Retailers in a market area on a pro-rata basis
  - GS soft start will commence on 1 October 2021. From this date the UFE will be included on Retailers' settlement statements and RM Reports but will not be included in the amount payable.
- From 1 May 2022 (GS hard start), Retailer will become financially liable for UFE
- MSATS Standing Data changes
- NCONUML NMIs and Cross Boundary meters should be in place by 1 October 2021 to support UFE reporting

# What's changing?



## Generator

### 5MS Rule

- Submit 5-minute bids
- Manage 5-minute reallocation, if applicable
- Manage 5-minute metering data
- Manage new NMI Classification Codes



## Retailer

### 5MS Rule

- Manage 5-minute metering data
- Manage 5-minute reallocations, if appl.
- Receive and process new NMI classification codes

### GS Rule

- Reconcile market settlement invoices, incl. unaccounted for energy (UFE)
- Manage non-contestable unmetered loads (local retailers only)



## Distribution Network Service Provider

### 5MS Rule

- **Develop capability to receive 5-minute metering data**

### GS Rule

- Create and maintain cross-boundary NMIs and meters in MSATS.
- Develop capability to manage and apply new NMI classification codes.
- Create and maintain non-contestable unmetered load NMIs, inventory tables and calculation methodologies.

# What's changing?



## Metering Coordinator

### 5MS Rule

- Engage with FRMP's and MP's on configuration and/or replacement of certain meters to enable 5-minute granularity.
- Facilitate the installation of new and replacement 5-minute type 4 & 4A meters installed.

### GS Rule

- Assist with the resolution of any connection point or metering issues identified as part of UFE reporting, particularly cross-boundary metering.



## Metering Data Provider

### 5MS Rule

- Manage 5-minute metering data delivery
- Update accreditation where necessary
- Receive and process new NMI classification codes

### GS Rule

- Provide Metering Data to support GS Implementation
- Assist in the resolution of any metering issues identified as part of UFE Reporting



## Metering Provider

### 5MS Rule

- Update accreditation when necessary.
- Submit application to AEMO for metering installation data storage exemptions when necessary.
- Install, replace or reconfigure meters to 5-minute trading intervals as arranged by MC's, and in line with rule requirements
- Create or update MSATS NMI standing data as required.

### GS Rule

- Assist with resolution of connection or metering issues identified as part of UFE publication.

# Metering Transition Plan

“Metering transition” means the **metering installation and reconfiguration, metering data delivery and standing data update activities** needed for the NEM to transition to 5MS and GS.

The Metering transition plan **supports** each element of the **5MS and GS metering transition** by:

- Outlining the expected responsibilities, activities, dependencies and timeframes for completion for elements of the metering transition
- Forming the framework for the metering component of participant progress and readiness reporting
- The activities that support different parts of the metering transition are grouped into the following categories:
  - Meter installation and reconfiguration
  - Metering data delivery
  - MSATS standing data creation and maintenance
  - Metering service provide (MSP) accreditation updates.



# Capability Essential for 5MS Rule Commencement

The Program, in consultation with RWG, has established critical capability that **must** be in place to support the smooth operation of NEM at 5MS rule commencement.

## *Generators and MNSPs are able to submit 5-min offers*

- ✓ Generators representing >80% of regional load are reporting 'On-track' to be able to submit 5-minute granularity offers

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

- ✓ 100% of MPs associated to essential metering are reporting 'On-track' for all applicable MTP activities.
- ✓ 100% of MCs associated to essential metering are reporting 'On-track' for all applicable MTP activities.

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

- ✓ 100% of MDPs associated to essential metering are reporting 'On-track' for all applicable MTP activities.

## *AEMO capability*

- ✓ The 5-minute bidding and dispatch solution, including the web bidding interface, is deployed.
- ✓ The Metering Data Management (MDM) solution is deployed.
- ✓ The 5-minute settlement solution is deployed.

*Where delivery of this capability is seen at risk, contingencies will be required to facilitate 5MS Rule Commencement*

# 5MS Capability Market Trials

Greg Minney – Readiness Manager

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# Participant Testing Types

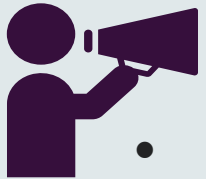
AEMO has facilitated early industry testing in the pre-production environment and a dedicated 5MS Staging environment to support participant readiness.

The approach to participant testing was developed in consultation with industry and is captured in the Industry Test and Market Trial Strategy

Type	Definition	Environment	Example
<b>Industry Testing</b>	Self-testing of functionality such as connectivity, and/or coordinated multiparty testing of functional scenarios	Staging, pre-prod	<ul style="list-style-type: none"><li>Testing a change request (CR) or processing a reallocation</li></ul>
<b>Market Trial</b>	AEMO coordinated multi-party end-to-end testing of business process scenarios	Pre-prod	Meter exchange involving CRs, services orders and 5-minute meter reads
<b>Invitation Industry Testing</b>	AEMO coordinated testing of business process scenarios with a select number or subset of participants with systems ready for testing.	Pre-prod	Testing NMI transfer Process

# 5MS Market Trial - Key Messages

The objectives of the Market Trial is to provide participants with an **opportunity to prove their updated systems** against AEMO's market systems, **test end-to-end scenarios**; and contribute to **assessment of overall industry readiness** for rule commencement.



## Key things to know:

- The trials run from **19 July through to 10 September 2021**
- **AEMO's pre-production environment** is used as the test environment
- **31 participants** have registered to participate in this activity
- **Settlement runs** to *mimic production* operation and **Retail scenarios** support key process testing and verification.
- To **support participants** in *preparing* for and *participating* in the Market Trial, the 5MS testing team have scheduled the following sessions:
  - **Twice weekly preparation sessions** (Tuesday and Thursday) from 22 June to 19 July
  - **Daily check-in sessions** from Market Trial start (19 July) and end (10 September)

## High Level Timeline

Description	Date	Owner
5MS Capability Market Trial preparation completed by participants	12-Jul-21	Participants
5MS Capability Market Trial preparation completed by AEMO	12-Jul-21	AEMO
5MS Capability Market Trial commences	19-Jul-21	AEMO
5MS Capability Market Trial concludes	10-Sept-21	AEMO

**Please note:** Registrations were required by **25 June**. However, **participants that haven't registered but would like to participate** should contact [5MS@aemo.com.au](mailto:5MS@aemo.com.au) to discuss.



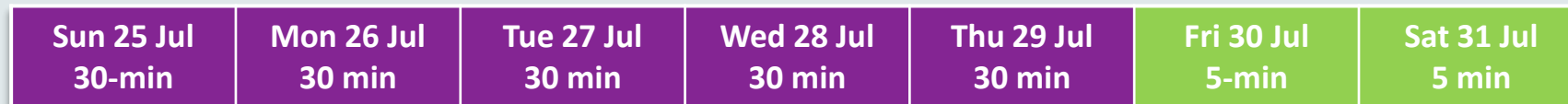
# Transition from 30 to 5-minute settlement

## 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

# 5MS Market Trial Scenario Examples

Sun 25 Jul 30-min	Mon 26 Jul 30 min	Tue 27 Jul 30 min	Wed 28 Jul 30 min	Thu 29 Jul 30 min	Fri 30 Jul 5-min	Sat 31 Jul 5 min
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## Examples – to be executed prior to 30 July

Verify unable to submit varied 5-min bids

Submission of 5 minute metering data

Meter reconfiguration to 5 Minute

NMI Reclassifications for GS

## Examples –to be executed from 30 July

Verify successful submission of varied 5-min bids

Verify rejection of MTMD meter data files for interval meters

Verify production of RM settlement reports in 5-min increments, including UFE

Verify creation and reception of 5-min settlement statements include preliminary, final and transition invoice.

# Preparation checklist

## Next Steps for Registered Participants – Entry Criteria:

- Confirm access to pre-prod
- Confirm in/out boxes are clean
- Confirm you are on the right Schema version for your testing and/or correct data model for wholesale
- Check the security access your test team will require to execute their tests i.e. folder access or only MSATS folder access etc.
- Confirm NMI lists with paired participants
- Confirm subscriptions in pre-prod wholesale to ensure you get all the reports you are expecting
- Confirm FTP and/or API access for your defined test scope
- Attend one of the three Practitiest trainings if required



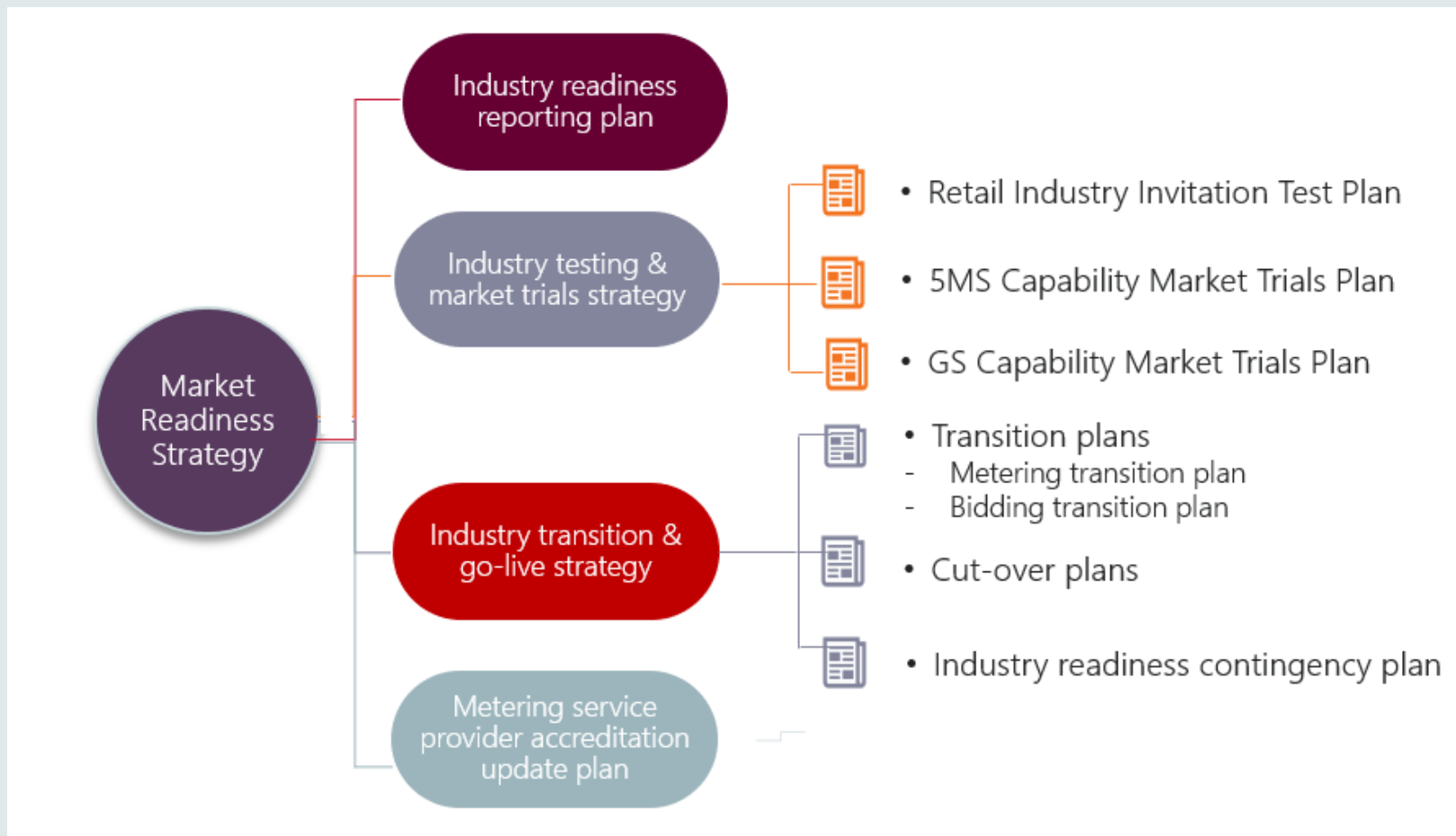
# Industry Readiness – how is the industry progressing?

Greg Minney – Readiness Manager

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# Readiness approach

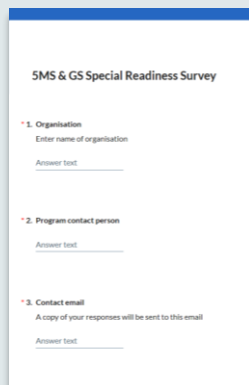
AEMO's Readiness Workstream is responsible for activities in preparation for transition to and commencement of the 5-Minute Settlements and Global Settlement rules. Activities include:



# Readiness reporting approach

1. Readiness reporting is **voluntary**
2. We encourage **open** and **honest self-assessment**
3. Responses are **confidential** (although we do publish a list of respondents)
4. Results are **aggregated** to produce a report
5. Results are **discussed** with our RWG and **together** we identify any actions that need to be taken

## Online Participant survey



5MS & GS Special Readiness Survey

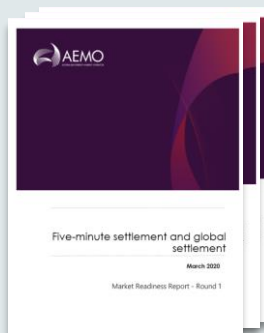
\*1. Organisation  
Enter name of organisation  
Answer text

\*2. Program contact person  
Answer text

\*3. Contact email  
A copy of your responses will be sent to this email  
Answer text



## Full Report



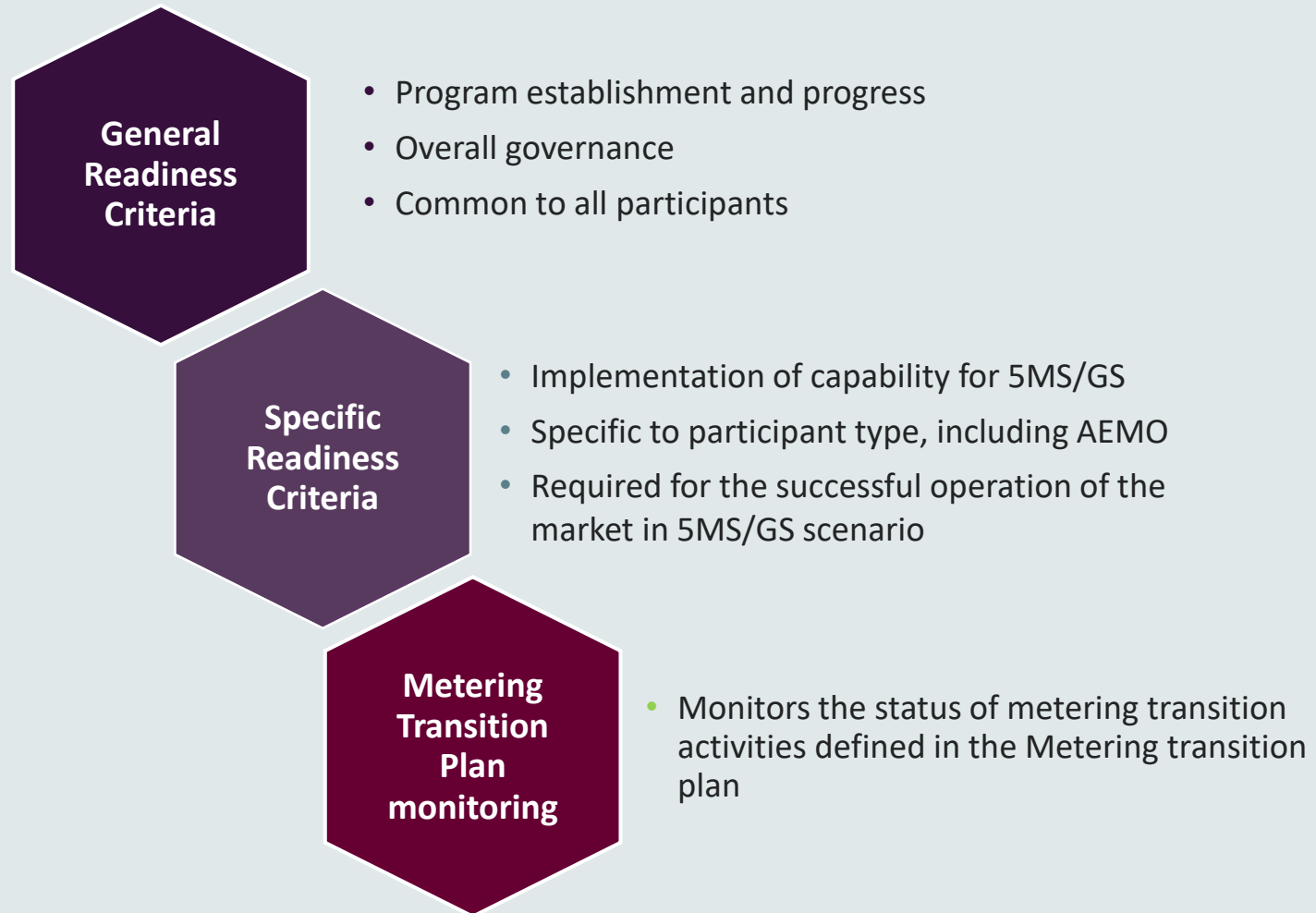
## Discuss results at working groups



## Targeted action

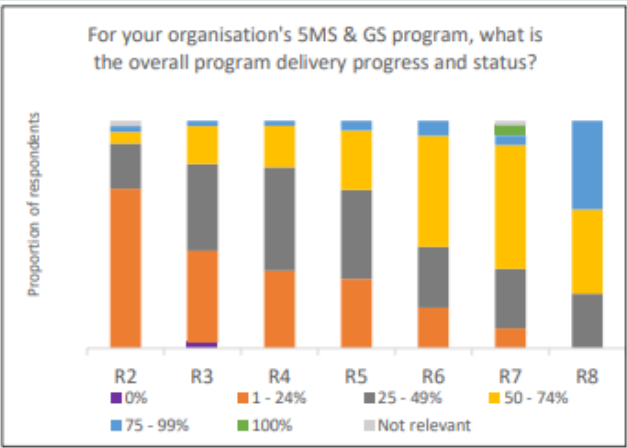


# Reporting Criteria

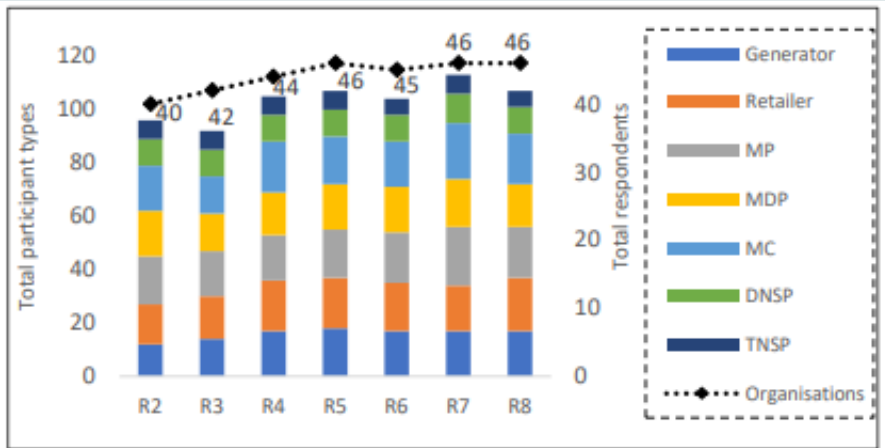


# Summary of results so far

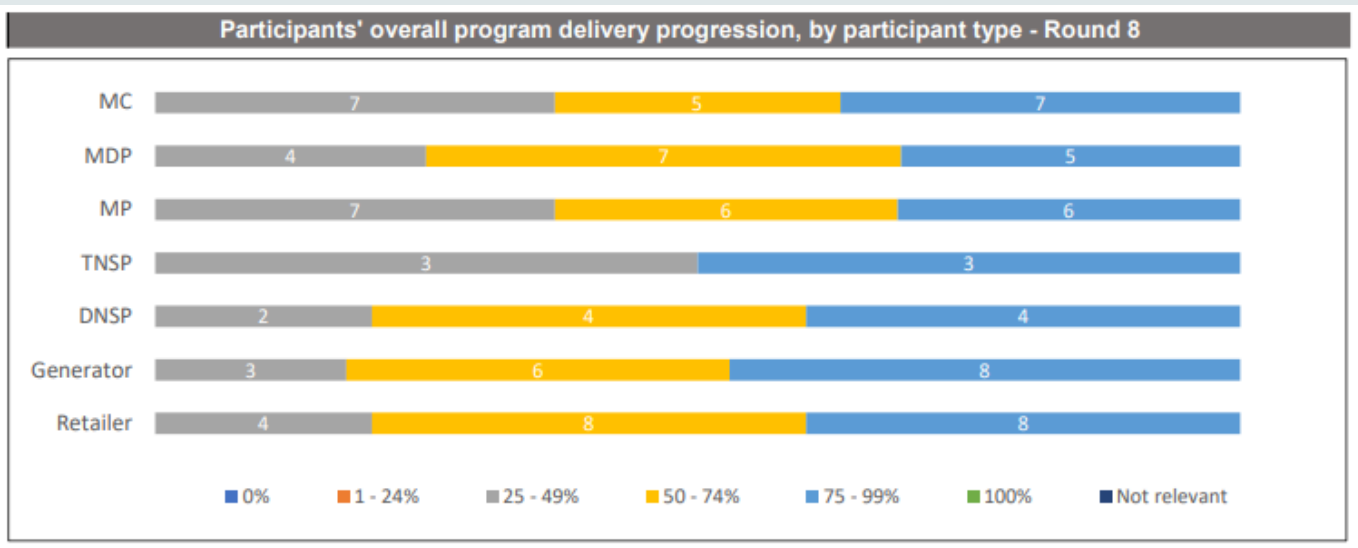
Overall Participant Delivery progress



Overall Participation by Participant type



Overall Delivery progress by Participant type





# Industry Readiness – Round 8

(as at 22 June)

	<b>On track</b>	On track for commencement date
	<b>Risk 1 – Risk to major milestones or deliveries</b>	Remediation or contingency activation required to ensure on track delivery for Rule Commencement
	<b>Risk 2 – Risk to rule commencement</b>	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"> <li>Status: On-track                             <ul style="list-style-type: none"> <li>All AEMO platforms are now in Production operating at 30 minute Settlement. Retail Platform deployed 21 June</li> <li>Market Trial scheduled for 19<sup>th</sup> July commencement</li> </ul> </li> <li>Trend: Up                             <ul style="list-style-type: none"> <li>AEMO's last platform (Retail) went live on the 21<sup>st</sup> June</li> </ul> </li> </ul>
Essential Industry Capabilities for 5MS commencement (Part A)	At-risk	↓	<ul style="list-style-type: none"> <li>Status: At-risk                             <ul style="list-style-type: none"> <li>Multiple MSPs plans reflect 10% 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"> <li>AEMO to engage the RWG to conduct detailed contingency planning for metering scenarios</li> </ul> </li> <li>Generators "on-track" with individual program risks reported</li> </ul> </li> <li>Trend: Down                             <ul style="list-style-type: none"> <li>Multiple MSPs with limited contingency for meter capability upgrade and metering data delivery</li> </ul> </li> </ul>
<b>Summary: Part A 5MS Rule Commencement Essential Industry Capability</b>	On-track	↓	<ul style="list-style-type: none"> <li>Status: On-track                             <ul style="list-style-type: none"> <li>AEMO's Retail platform went live on the 21<sup>st</sup> June. All key 5ms platforms now in production</li> <li>Tranche 1 metering plans meet compliance obligations but have reduced schedule contingency in event of delayed delivery</li> </ul> </li> <li>Trend: Down                             <ul style="list-style-type: none"> <li>AEMO's Retail platform is now live, however, MSP time contingency has reduced with heightened risk profile</li> </ul> </li> </ul>
Other industry capabilities for 5MS and GS (Part B)	On-track	↓	<ul style="list-style-type: none"> <li>Status: On-track                             <ul style="list-style-type: none"> <li>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</li> <li>Metering transition activities have heightened risk profile</li> </ul> </li> <li>Trend: Down                             <ul style="list-style-type: none"> <li>Increase in Participants reporting items at-risk or late compared to the previous readiness reporting round</li> </ul> </li> </ul>



Contact us:  
5MS@aemo.com.au

# Next Steps and Further Information

- Readiness Reporting Round 9 will be issued on 2 August. This will be the final readiness reporting prior to 5MS commencement and will be used to inform the market start notice for 1 October 2021
  - Further information on Readiness Reporting and previous reports are available on the [5MS webpages](#).
- !! If your organisation has not participated in Readiness Reporting please contact the 5MS mailbox to provide us an update on your organisation's status.



# Contingency Planning

Peter Carruthers – Business Advocate (Chair)

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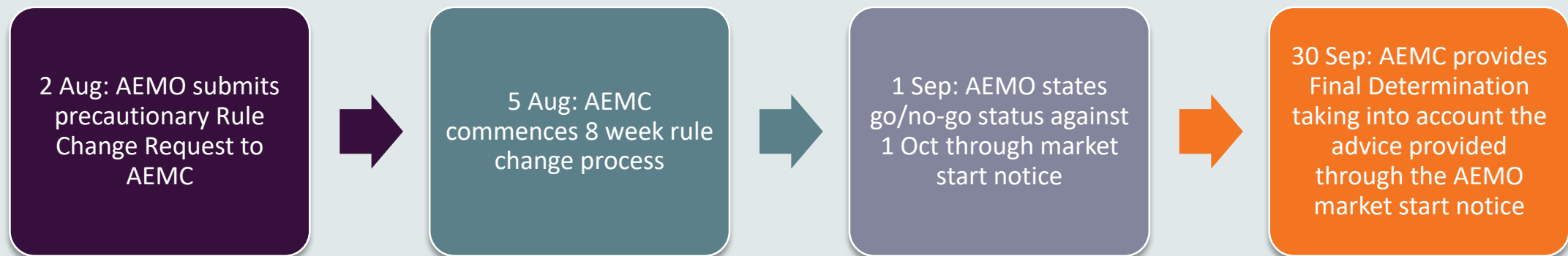
# Overview of 5MS Contingency Planning

- Industry Contingency **plan developed** by RWG in April 2020.
- **26 contingency scenarios identified**, with associated monitoring , responses and trigger points.
- Scenarios coverage includes:
  - AEMO “Not Ready” to operate for 5MS Rule commencement
  - Minimum / Essential criteria not met for 5MS Rule Commencement
  - Essential Meters not fully compliant at 5MS rule Commencement
  - Essential Meter(s) metering data delivery issues
  - Delays to platform deployments
  - Platform Deployment failures
  - Post go-live inaccuracies and issues
- Where applicable contingency responses **utilise existing** NEM operating processes.
- **Monitoring Mechanism** a number of scenarios include monitoring of participant and AEMO progress via readiness reporting and completion of planned milestones.
- As component of RWG readiness reporting assessment will be made against identified contingency scenarios for contingency implementation.



# AEMO will submit a Rule Change Request as an “insurance policy” against a critical issue arising

- The 5MS Program is a **large complex program**. While the program is progress as “**green, on track**” for **1 October**, risks and pressures remain within the AEMO and industry programs.
- With the commencement of Market Trial, the 5MS Program is now on the **critical path to 1 October**. The following risks to critical path that could impact 1 October have been identified:
  - Cutover or significant post go-live issue with the Retail IT Platform
  - Unexpected significant issue during Market Trial
  - Essential capability issue for participant readiness (without a contingency response).
- AEMO will **confirm** the go/no-go status for the 5MS Rule Commencement on **1 September through a market start notice**. Participants should assume that 1 October will proceed unless otherwise notified by AEMO on 1 September.
- AEMO will submit a **precautionary Rule Change Request** to the AEMC by 2 August. This is the latest possible date to allow for the 8-week rule change process with a Final Determination on 30 September. This is a **risk mitigation measure** and is a form of “insurance policy” for a major unexpected issue.



# Meeting Close

Peter Carruthers – Business Advocate (Chair)

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# Get in touch and let us know your organisation's plan for 1 October

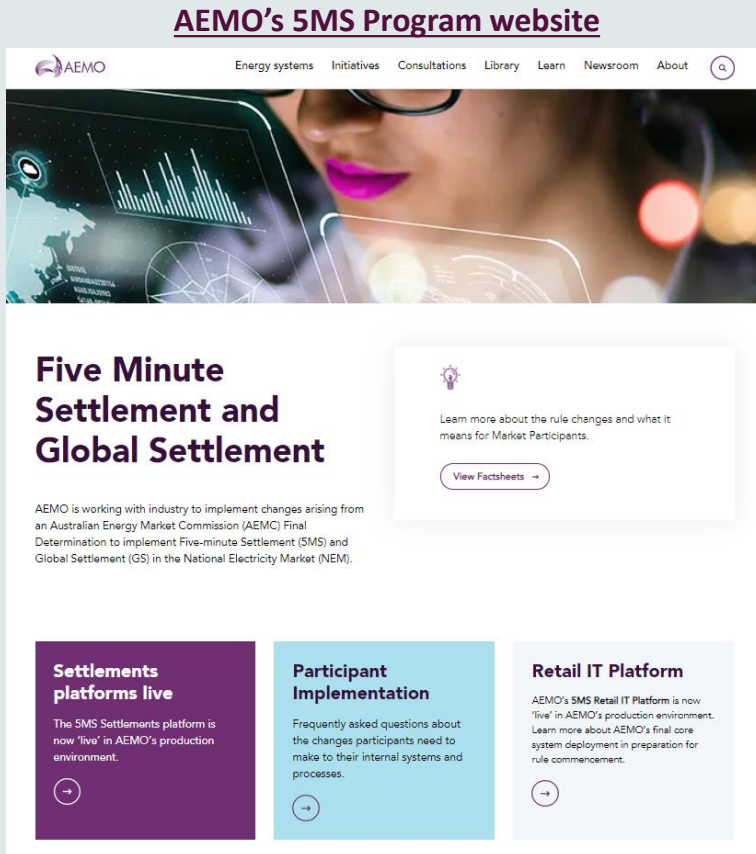
- All participants should assess their readiness status for the changes that will come into effect from 1 October 2021.
- Information is available on the [AEMO 5MS Program website](#) to help support the understanding of AEMC's 5MS and GS rules
- Contact us:
  - Let us know how your organisation is tracking for 5MS commencement on 1 October 2021 and Global Settlements on 1 May 2022
  - Join our mailing lists or working groups
  - Ask for further information
  - Request a call with one of our experts



Contact us:  
[5MS@aemo.com.au](mailto:5MS@aemo.com.au)

# How can I learn more?

## AEMO's 5MS Program website



Energy systems Initiatives Consultations Library Learn Newsroom About

### Five Minute Settlement and Global Settlement

Learn more about the rule changes and what it means for Market Participants.

[View Factsheets →](#)

AEMO is working with industry to implement changes arising from an Australian Energy Market Commission (AEMC) Final Determination to implement Five-minute Settlement (5MS) and Global Settlement (GS) in the National Electricity Market (NEM).

#### Settlements platforms live

The 5MS Settlements platform is now 'live' in AEMO's production environment.

#### Participant Implementation

Frequently asked questions about the changes participants need to make to their internal systems and processes.

#### Retail IT Platform

AEMO's 5MS Retail IT Platform is now 'live' in AEMO's production environment. Learn more about AEMO's final core system deployment in preparation for rule commencement.

## AEMC's website

### Australian Energy Market Commission

The rule maker for Australian electricity and gas markets. We make and amend the National Electricity Rules, National Gas Rules and National Energy Retail Rules. We also provide market development advice to governments.

#### Latest News

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- New version 23 of the National Energy Retail Rules
- New version 145 of the National Electricity Rules
- Final report published on liquidity review of Australian gas markets
- Stakeholders start ball rolling on proposals for regulatory makeover so everyone can benefit from DER integration
- AEMC Initiated Rules – Minor changes 3 2020
- Grid access reform technical working group on contract market liquidity: meeting summary

Key AEMC links:

- [5MS Rule](#)
- [GS Rule](#)
- [Rule Amendment](#)
- [Deferral Decision](#)



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Questions?

