

# 5MS Industry Testing Working Group #1

Thursday, 12 December 2019 11:00 – 14:00 (AEST) AEMO Office: Level 22, 530 Collins St, Melbourne, VIC 3000



No.	Time (AEST)	Agenda item	Presenter					
Preli	Preliminary matters							
1	11:00 – 11:10	Welcome	Tui Grant					
2	11:10 – 11:20	Re-cap on 5MS and GS	Emily Brodie					
3	11:20 – 11:30	Purpose, Expectations and Logistics	Tui Grant					
Matt	ters for discussion							
4	11:30 – 12:00	Industry Testing and Market Trials Strategy	Tui Grant					
		Lunch: 12:00 – 12:20						
5	12:20 – 13:10	Release 1: B2M APIs	Tui Grant					
6	13:10 - 13.50	Release 2: Reallocations	Tui Grant					
7	13:50 – 14:00	Forward Meeting Plan	Tui Grant					



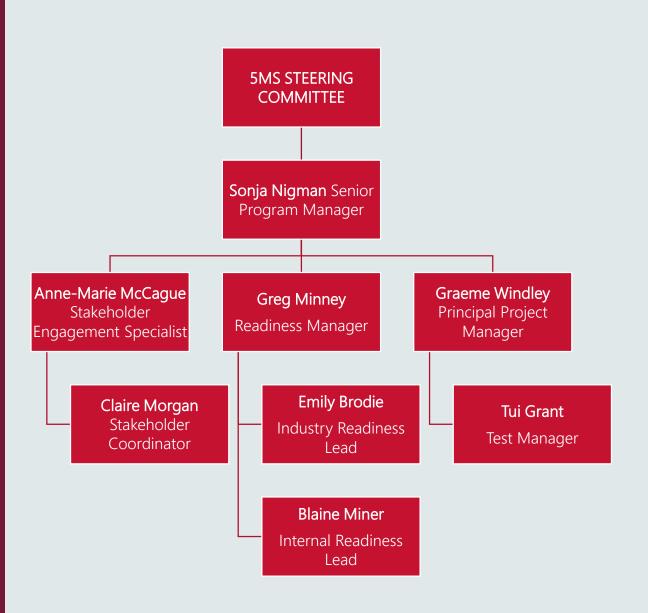
# Welcome

Tui Grant

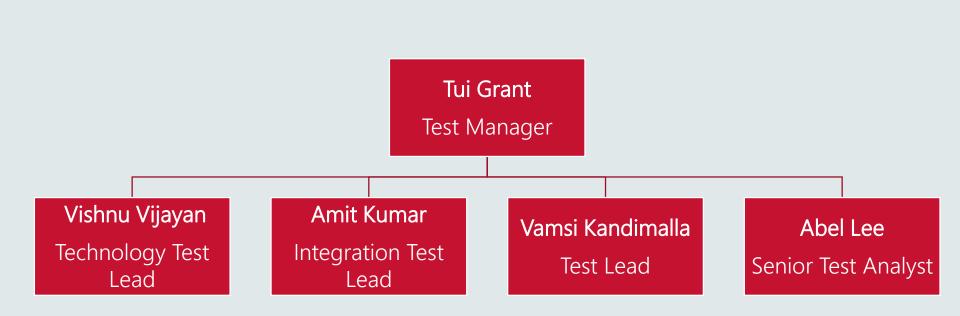


#### 5MS/GS Testing: Key AEMO contacts





#### 5MS Test Team





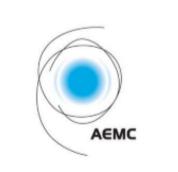
# Re-cap on 5MS and GS

Emily Brodie



## AEMC decision

- In November 2017, the AEMC made a final rule change altering the settlement period to 5 minutes, aligning with dispatch period
- The industry "go-live" is 1 July 2021
- Purpose of rule change is to:
  - remove the anomaly that exists between the 5 minute and 30 minute periods, which has been identified as a contributing factor to disorderly bidding
  - provide a clearer price signal for investment in fast response technology, including batteries and demand response
- Key areas affected:
  - Metering
  - Settlement calculation
  - Dispatch and market information





#### What is required to implement 5MS?

- From 1 July 2021, following processes need to change to a 5 minute basis:
  - Bidding and offering into the NEM
  - Settlement
  - Intervention pricing
  - Calculation of trading amounts and the cumulative price threshold
- This means that AEMO and market participants will need to:
  - upgrade metering to provide 5 minute data (where required)
  - upgrade IT systems to store and process 5 minute data
  - review/update existing contract terms and conditions
- AEMO also had to update its procedures by December 2019

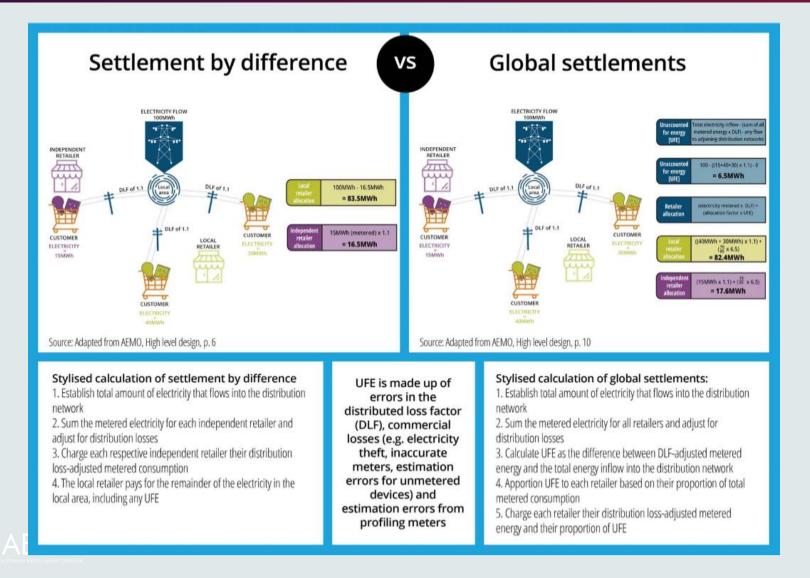


#### Global settlement recap

- On 6 December 2018, the AEMC finalised a rule to implement Global Settlement (GS)
- GS is an alternative methodology for settling electricity within a distribution area. It will replace settlement-by-difference. GS will:
  - remove any inequity between retailers
  - provide visibility of the unaccounted for energy (UFE) within distribution areas
- More information is provided in the Global Settlement fact sheet: <u>http://www.aemo.com.au/-</u> /media/Files/Electricity/NEM/5MS/Program-Information/2018/5MS What-is-global-settlement.pdf



#### Settlements by Difference vs Global Settlements



### Key areas affected by global settlement

- GS is being implemented in parallel with 5MS
- Some market procedures these have been consulted on as part of the metering and settlements packages
- AEMO and participants' IT systems changes across both retail and wholesale systems
- Additional data:
  - NSPs/MDPs required to provide information on *non-contestable unmetered loads*
  - MDPs required to provide metering data for all connection points
- AEMO will begin publishing UFE from 1 July 2021:
  - no financial impact to retailers from UFE allocation from 1 July 2021 to 5 February 2022
  - UFE allocation will be financial from 6 February 2022

#### 5MS/GS implementation timeline

#### 1 Dec 2019

AEMO procedures updated for both 5MS and GS

#### 1 Jul 2021

5MS begins AEMO starts publishing UFE data ('soft start')

#### 6 Feb 2022 GS begins

#### 1 Mar 2022

AEMO's first annual report on UFE trends

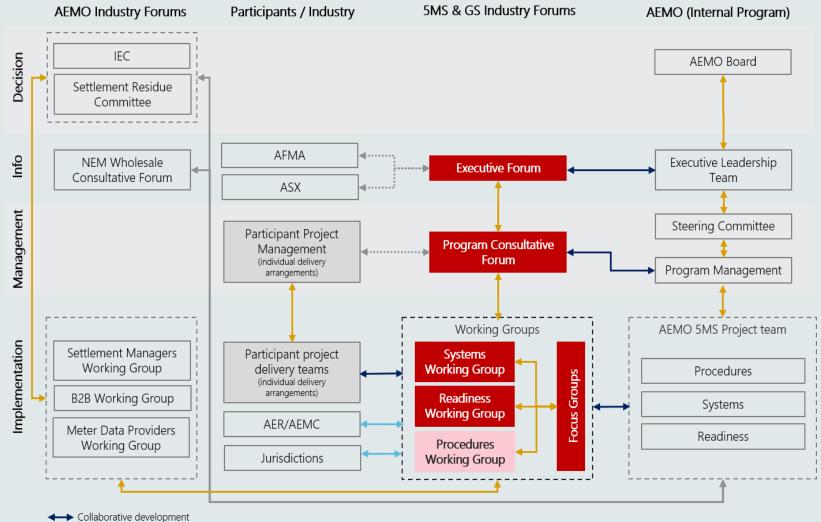


# Purpose, Expectations and Logistics

Tui Grant



## Context



- Recommendation and escalation
- Information & Reporting
- Collaborative information sharing
- Updates as required outcomes of external processes

#### Purpose and objectives

- ITWG is for AEMO and industry stakeholders to engage in detail 5MS and GS testing matters.
- ITWG is a working group that:
  - contributes to the 5MS/GS Readiness Workstream
  - reports to the Readiness Working Group (RWG).
- Through the ITWG, AEMO will engage with the industry to:
  - Develop the approach and scope of each of the releases associated with the 5MS program
  - Understand, and where reasonable accommodate, key industry concerns relating to testing activities
  - Collaborate on the development of the test plans for each release associated with the 5MS Program
  - Ensure that transitional considerations defined by the readiness working group are taken into consideration for any participant testing activities

#### Scope

#### The ITWG:

- Is responsible for engaging in the verification of new and changed solutions that AEMO is implementing
- Provides participants with information that may assist them with their internal programs
- Identifies and defines scenarios and activities for each release test plan, including data, participant pairing and outcome definition. This provides the opportunity to verify participants' internal solutions
- Identifies testing specific risks and issues, and escalate to the RWG or Systems Working Group (SWG) to manage as appropriate
- May also refer matters to other relevant experts and working groups across AEMO for their input and consideration.



#### **ITWG** expectations

- Expected that the ITWG will meet monthly:
  - Proposing a 2 hour meeting, longer in the lead-up to market trials
  - Webex dial-in
  - On occasion, ITWG can choose to meet face-to-face or via VC at AEMO's offices where reasonable e.g. in the lead-up to market trials
- ITWG members are expected to:
  - Be prepared to participate in discussion and provide detailed responses to matters under discussion.
  - Have authority to consider focus group matters and provide official views and commitments on behalf of their business.
  - Provide focus group outcomes back into their business.
  - Have authority to provide commitment to undertake the activities agreed by the ITWG as in scope.
  - Understand testing practices and principles.
  - Have capacity to participate in focus groups to define scenarios for test plans.
- Escalation of any contentious matters will be via AEMO's program and the Executive Forum

### Considerations

- Participation in industry testing is not mandatory
  - Testing participation rates will be monitored through readiness reporting
- Outcomes are only as valuable as the honesty with which they are recorded
  - The industry has agreed to a Market Readiness principle of "open and honest readiness reporting"
- Be aware of participants' capacity to provide test data for the industry to consume



#### Proposed approach to developing and consulting on test plans

#### ITWG engagement

#### AEMO publishes draft paper

Participants comment and provide suggestions on draft paper to AEMO

AEMO publishes final paper after considering suggestions from participants



# Industry Testing and Market Trials Strategy

Tui Grant



#### Overview

- The <u>Industry Testing and Market Trials Strategy</u> identified 6 test phases relating to system go-lives and rule commencements:
  - 1. B2M API's
  - 2. Reallocations
  - 3. MDM
  - 4. Settlements and Dispatch & Biding
  - 5. 5 Minute Settlements
  - 6. Global Settlements

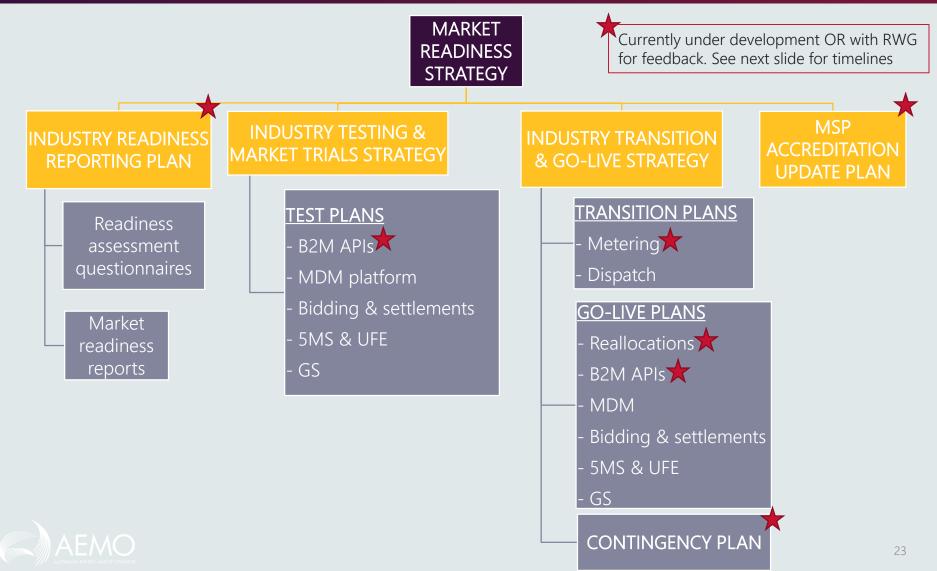


#### Overview – strategy content

- One-stop shop for everything to do with 5MS/GS testing, including:
  - Environments
  - Objectives
  - Defect management
  - Testing tools
  - Execution approach
  - Data considerations
  - Test communications
- ITWG will develop the test plans indicated in the strategy, starting with B2M APIs in today's session.



#### Deliverables



#### Readiness papers - timelines

ltem	RWG/ITWG/FG engagement	Draft paper	Consultation	Comments due	Final paper
Industry test and market trial strategy	Jul-19	30-Sep	4 weeks	28-Oct	29-Nov
B2M API – Test plan (invitation only)	Dec-19	31-Dec-19	2 weeks	13-Jan-20	20-Jan-20
Transition and go-live strategy	Jul-19	30-Sep	4 weeks	28-Oct	29-Nov
Metering transition plan	Aug-19 onwards	29-Nov	3 weeks	20-Dec	7-Feb-20
Industry contingency plan	Nov-19	20-Dec	6 weeks	31-Jan-20	13-Mar-20
Industry readiness reporting plan	Sep-19	31-Oct	3 weeks	21-Nov	13-Dec
MSP accreditation update plan	Oct-19	29-Nov	11 weeks	31-Jan-20	21-Feb-20

NOTE: early feedback on documents is welcome



## Developing the Industry test plans

Test plans	ITWG Engagement	Draft Plan	Consultation	Comments due	Finalised Plan
MSATS B2M APIS	Dec 2019	31 Dec 19	2 weeks	13 Jan 20	20 Jan 20
MSATS – MDM Platform	Jun 2020	Jul 2020	Jul 2020		Aug 2020
Settlements and dispatch and bidding	Oct 2020	Nov 2020	Nov 2020		Dec 2020
Five-minute settlement	Oct 2020	Nov 2020	Dec 2020		Jan 2021
Global settlement	Jun 2021	Jul 2021	Aug 2021		Aug 2021



# Release 1: B2M APIs



#### Changes introduced in Release 1

- The introduction of API's is the major change from a participant perspective
- The ability to access MSATS via the market portal
- Updates to screen security to support the later release of the new MDM
- New screens for push/pull participant control of API/FTP functionality



# Release 2: Reallocations



#### Changes introduced in Release 2

- The new screens allow for easier management of the reallocation functionality for the current 30 minute process.
- Reallocations entered after the 1 July 2021 will only be accepted in 5 minute format.
- New alert functionality offered to participants allows for notification of status changes for reallocations.



# Forward Meeting Plan

Tui Grant



#### Forward Agenda

- Walk through of Release 1 Test Plan.
- Update on Release 1 SIT and UAT within AEMO.
- Update on Release 2 SIT and UAT within AEMO.
- Review any changes affect testing deliverables.



How to engage with the 5MS Program

Email for questions or to be added to mailing lists: <u>5ms@aemo.com.au</u>

Website: <u>https://www.aemo.com.au/Electricity/National-</u> <u>Electricity-Market-NEM/Five-Minute-Settlement</u>

Working Group calendar



# Upcoming Meetings

Current as at 29-11-2019



#### 2019

	DECEMBER						
Su	Мо	Τu	We	Th	Fr	Sa	
1	2	3	4	5	6	7	
8	9	10	11	12	13	14	
	16						
22	23	24	25	26	27	28	
29	30	31	1	2	3	4	
5	6	7	8	9	10	11	

#### 2020

5

			JANUARY			
Su	Мо	Τu	We	Th	Fr	Sa
29	30	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	31	1
2	3	4	5	6	7	8

				FEB	RUA	RY
Su	Мо	Tu	We	Th	Fr	Sa
26	27	28	29	30	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
1	2	3	4	5	6	7

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

Focus Groups				
Dispatch	Metering			
Settlements	Transition			
Contingency	Reconciliation			

Other	
Information Sessions	

#### National Public Holiday

State Public Holiday\*

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

					MAR	СН
Su	Мо	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	1	2	3	4

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Thank you for your attendance and participation!



