

## Five-Minute Settlement Program: Program Consultative Forum 10

**AEMO 5MS Program Team** 

FRIDAY 10 MAY 2019 AEMO OFFICES: LEVEL 22, 530 COLLINS STREET, MELBOURNE LEVEL 2, 20 BOND STREET, SYDNEY LEVEL 9, 99 GAWLER PLACE, ADELAIDE LEVEL 10, 10 EAGLE STREET, BRISBANE DIAL IN: 02 9037 0069 ACCESS CODE: 570 393 628

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

## Agenda

NO	TIME	AGENDA ITEM	RESPONSIBLE
Preli	minary Matters		
1	10.00am – 10.10am	Welcome, introduction, attendance and apologies	Chris Muffett (AEMO)
2	10.10am – 10.20am	Minutes and actions from previous meeting	Chris Muffett (AEMO)
Matte	ers for Noting		
3	10.20am – 10.50am	Program update	Graeme Windley (AEMO)
4	10.50am – 11.00am	Industry risks & issues register	Graeme Windley (AEMO)
5	11.00am – 11.10am	Procedures workstream update	Emily Brodie (AEMO)
6	11.20am – 11.30am	Readiness workstream update	Greg Minney (AEMO)
7	11.30am – 11.40am	Stakeholder Update	Monica Morona (AEMO)
Matte	ers for Discussion		
8	11.40am – 12.00pm	Readiness planning	Greg Minney (AEMO)
9	12.00pm – 12.20pm	Procedures Working Group transition	Emily Brodie (AEMO)
10	12.20pm – 12.40pm	Program Change Request process	Blaine Miner (AEMO)
Othe	r Business		
11	12.40pm – 12.55pm	General questions	Chris Muffett (AEMO)
12	12.55pm – 1.00pm	Forward meeting plan	Chris Muffett (AEMO)



## Minutes and actions from previous meeting

Chris Muffett

### Actions

PCF 9	- Actions			
ITEM	TOPIC	ACTION REQUIRED	RESPONSIBLE	STATUS
8.7.4	Stakeholder Updates	Arrange for invitations for all scheduled meetings to be distributed	Chris Muffett	Completed – calendar available on 5MS webpage
9.4.1	Preliminary Matters – Minutes and Actions from previous meeting	R02 – AEMO to consider a response strategy to manage the risk of participants not being ready as part of the readiness workstream.	Graeme Windley	Closed
9.7.1	Readiness Workstream	AEMO to consider dates for readiness reporting, and opportunities for interim reporting arrangements to be in place earlier.	Greg Minney	In Progress – Readiness Working Group action
9.7.2	Readiness Workstream	Consider nominations for Readiness Working Group ahead of formal establishment	PCF members	In Progress – response due 31 May 2019
9.9.1	Industry timelines	AEMO to provide milestones in MPP file format	Graeme Windley	Completed – included in meeting pack
9.9.2	Industry timelines	Provide more definition in regard to aligning schedules and proposed start date of market trials.	Graeme Windley	In progress – June PCF reporting



# Program update

Graeme Windley

### Program Update

- Overall
  - Milestones baselined, available for reporting today
  - Level 3 milestones with industry impact distributed with this pack
- Procedures Workstream
  - Overall Green, a couple of documents delayed but no overall impact
  - · Currently three consultations out for review
- Metering Workstream
  - AEMO Internal Functional and Technical Design on track to delivery on 31 May 2019
  - Delay in delivery of MSATS technical spec and File Format & Load process documentation, as a result of Procedures Metering Package 2 delay
  - B2M via API design work has commenced; B2M via eHub technical guide will be released in May to participants
- Dispatch Workstream
  - AEMO Internal Internal work on track. System Testing has begun for developed work packages
  - EMMS technical specification out for review
- Settlements Workstream
  - AEMO Internal Internal work on track. System Testing has begun for developed work packages
- Readiness Workstream
  - Greg Minney has joined the 5MS Program as Readiness Manager welcome Greg!
  - Market Trial content presentation to PCE to be delayed to June PCE

#### Level 1 Milestones - Status Report

Domain		Initiative	e	2019				2020				2021			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Program		Jan	Feb Mar	Apr May Jun	Jul Aug Sept	Ded Nov Dec	L1-7	Apr May Jun		Cot Nov Dec	: Jan Feb Mar	Apr May Jun	7-17 Jul Aug Sept	: Oct Nov Dec	
					s (Prograr										
			ID	Milesto		· · <i>)</i>		Targe	: Date	Expected	Date St	atus	_	_	
			L1-1 5MS Drafting Amendments submitted to AEMC				omitted to	20-M				Completed, however belated Procedure work has uncovered additional changes which are required.			
	Milestone complete		L1-11		All AEMO workstream development commenced			23-M	ay-2019	23-May-2	2019 C	n Track			
	Milestone on	L1-2		IEC Ap	IEC Approves B2B Procedures			01-Ju	I-2019	01-Jul-20	019 C	ompleted			
	Milestone at r			5MS S	5MS Staging environment live			01-De	ec-2019	01-Dec-2	2019 P	rovisional			
	Milestone not	achieved	L1-3	3 AEMO publishes NEM Procedures			ures	01-De	01-Dec-2019 01-Dec-2019		2019 N	landated			
	Critical Deper	ndency	L1-7	Market AEMO	Market Readiness Strategy Published by AEMO			20-Ja	20-Jan-2020 20-Jan-2020 F			irm			
			L1-13	AEMO	Internal De	velopment C	ompleted	30-Ju	n-2020	30-Jun-2	2020 P	rovisional			
			L1-14	Market Trials	Participant	s Readiness	for Market	30-No	ov-2020	30-Nov-2	2020 P	rovisional			
			L1-8	Particip	oant Market	Trials comm	ience	01-De	ec-2020	01-Dec-2	2020 P	rovisional			
			L1-9	Particip	oant Market	Trials conclu	ude	31-M	31-May-2021 31-May-2021		2021 P	Provisional			
			L1-10	Meterir	ng Accredita	ation Comple	te	31-M	ay-2021	31-May-2	2021 P	rovisional			
			L1-4	5MS &	UFE Marke	et Go Live		01-Ju	I-2021	01-Jul-20	021 N	landated			
			L1-5	GS Ma	rket Go Live	Э		06-Fe	eb-2022	06-Feb-2	2022 N	landated			

#### Level 2 Milestones - Dispatch

Domain Dispatch		Initiative		2019					2020				2021			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
					L2-D1	L2-D2	L2-D3		L2-D5 L2-D4		L2-D6 L2-D7 L2-D8		L2-D9 D10	10		
			Ja	an Feb Mar	Apr May Jun	Jul Aug Sept	Oct Nov Dec	Jan Feb Mar	Apr May Jun	Jul Aug Sept	Oct Nov De	c Jan Feb Mar	Apr May Jun	Jul Aug Sept	Oct Nov Dec	
					s (Prograr	n)				_						
			ID	Milesto				Target		Expected		tatus				
	Milestone complete		L2-D1		echnical Sp ned by AEM		or Package 1	2-Apr-	2019	2-Apr-201	19 C	Completed				
			L2-D2		echnical Sp ned by AEM		or Package 4	31-Jul	-2019	31-Jul-20	19 F	ïrm				
	Milestone on		L2-D3	Software Drop for Packages 1,2 & Staging Environment		2 & 3 in 5MS	29-No	v-2019	29-Nov-2	019 F	ïrm					
	Milestone at Milestone no		L2-D5	Softwa Enviro	•	Package 4 in	5MS Staging	g 15-Ma	y-2020	15-May-2	020 F	ïrm				
	Critical Depe	ndency	L2-D4	Develo	pment comp	oleted (intern	al)	31-Ma	y-2020	31-May-2	020 F	ïrm				
		-	L2-D6	UAT co	ompleted (in	ternal)		30-No	v-2020	30-Nov-2	020 F	ïrm				
			L2-D7	Market	t Trial prepa	ation comple	eted	30-No	v 2020	30-Nov 20	020 F	Provisional				
			L2-D8	Market	t Trial prepa	ation comple	eted	30-No	v 2020	30-Nov 20	020 F	Provisional				
			L2-D9	5-min l	Bidding Pha	sed Go Live I	Begins	01-Ap	r-2021	01-Apr-20	)21 F	Provisional				
			L2-D10	) Market	t Trial conclu	de		31-Ma	y-2021	31-May-2	021 F	Provisional				
			L2-D11	l 30-min	Bidding no	longer accep	oted by AEMC	) 01-Jul	-2021	01-Jul-20	21 N	landatory				

#### Level 2 Milestones – Metering

Domain Metering		Initiativ	e		20	019			20	020		2021			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
		Jan Feb Mar Apr May Jun Jul Aug Sept Oct Nov Dec Jan Feb							Apr. May Jun		L2-M9 L2- M112- M11-	Jan Feb Mar	Apr. May Jun	Jul Aug Sept	Oct Nov Dec.
				Milestone											
			ID	Milesto						Target Date	Expected D	ate Statu	S		
			L2-M1		AEMO internal Metering solution – Solution Design complete (internal)					31-May-2019	31-May-20	19 Firm			
	Milestone complete Milestone on track		L2-M2	Prinal T	Final Technical Specifications for Package 1 published by AEMO					30-Jun-2019	30-Jun-201	9 Firm			
			L2-M3	6 Final T	echnical Sp	ecifications	for Packages	2 published	by AEMO	31-Jul-2019	31-Jul-201	9 Firm			
	Milestone at		L2-M4	Final T	echnical Sp	ecifications	for Package 3	3 published b	y AEMO	31-Aug-2019	31-Aug-20	19 Firm			
	Milestone no	achieved	L2-M5	5 Softwa	re Drop for	Packages 1	& 2 in 5MS S	taging Enviro	onment	01-Dec-2019	01-Dec-20	19 Firm			
	Critical Depe	ndency	L2-M6	6 Agreer	ment on req	uirements fo	r Accreditatio	n & Market T	rial	31-Mar-2020	31-Mar-202	20 Provi	sional		
			L2-M7	AEMO	internal Me	etering solution	on – Build cor	nplete (interr	nal)	30-Jun-2020	30-Jun-202	20 Firm			
			L2-M8	S Softwa	re Drop for	Package 3 ii	n 5MS Stagin	g Environme	nt	31-Jul-2020	31-Jul-202	0 Firm	Firm		
			L2-M9	AEMO	internal Me	etering solution	on – Go Live o	complete (int	ernal)	31-Oct-2020	31-Oct-202	20 Provi	sional		
			L2-M1	0 New M	IDFF format	t accepted by	y AEMO			01-Nov-2020	01-Nov-202	20 Provi	sional		
			L2-M1	1 Market	Trial prepa	ration comp	eted by partic	pipants		30-Nov-2020	30-Nov-202	20 Provi	sional		
			L2-M1	2 Market	Trial prepa	ration comp	eted by AEM	0		30-Nov-2020	30-Nov-202	20 Provi	sional		
			L2-M1	3 Market	Trials conc	lude				31-May-2021	31-May-20	21 Provi	sional		

#### Level 2 Milestones – Settlements

Domain Initia Settlements		Initiativ	e		20	19			2020				2021			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
			ړ	lan Feb Mar	Apr May Jun	Jul Aug Sept	Oct Nov Dec		L2-L2 S12 L2-S7 L2-S	Jul Aug	Sebt Oct Nov Dec	Jan Feb Mar	L2- S13- Apr May Ju	n Jul Aug Sept	Oct Nov Dec	
			Kev N	Vilestone	s (Prograr	n)										
			ID	Milesto		,				Та	rget Date	Expected I	Date S <sup>.</sup>	atus		
			L2-S1	Final T	echnical Sp	ecifications f	or Package	1 published	by AEMO	15	5-Oct-19	15-Oct-19	9 F	irm		
			L2-S2	Softwa	Software Drop for Package 1					01	-Nov-19	01-Nov-19	9 F	irm		
	Milestone co	mplete	L2-S3	Final T	echnical Sp	ecifications f	or Package	2 published	by AEMO	15	5-Dec-19	15-Dec-19	9 F	irm		
	Milestone on	track	L2-S4	Final T	echnical Sp	ecifications f	or Package	3 published	by AEMO	3	-Jan-20	31-Jan-20	) F	irm		
	Milestone at		L2-S8	Market	Trials for re	allocations				13	B-Mar-20	13-Mar-20	I] C	Provisional]		
	Milestone no		L2-S6	Softwa	re Drop for	Package 2 ir	n 5MS Stagii	ng Environm	ent	16	6-Mar-20	16-Mar-20	) F	irm		
	Critical Depe	endericy	L2-S12	2 Reallo	cations Go I	_ive				0,	-Apr-20	01-Apr-20	) P	rovisional		
			L2-S7	Softwa	re Drop for	Package 3 ir	n 5MS Stagi	ng Environm	ent	1:	5-May-20	15-May-2	0 F	irm		
			L2-S5	Develo	pment com	pleted (interr	nal)			3	-May-20	31-May-2	0 F	irm		
			L2-S9	UAT co	ompleted (in	iternal)				16	S-Oct-20	16-Oct-20	) F	irm		
			L2-S10	0 Market	Trial prepa	ration compl	eted by part	icipants		30	)-Nov-20	30-Nov-20	0 P	rovisional		
			L2-S12	1 Market	Trial prepa	ration compl	eted by AEN	10		30	)-Nov-20	30-Nov-20	0 P	rovisional		
			L2-S13	3 Market	Trials conc	lude				3	-May-21	31-May-2	1 P	rovisional		

### Systems Consultations

#### **Systems HLIA**

- Updates to the settlements, retail, and dispatch and operational systems
   released 8 April
- Seeking feedback by Monday 20 May.
- More information <u>http://www.aemo.com.au/Electricity/National-</u> Electricity-Market-NEM/Five-Minute-Settlement/Systems-Workstream.

#### **EMMS Technical Specifications**

- A new version of the specifications was released 2 April, updates to the dispatch and bidding elements.
- Seeking feedback regarding AEMO mapping between SR reports and EMMS data modelling by Monday 20 May.
- More information <u>http://www.aemo.com.au/Electricity/National-</u> <u>Electricity-Market-NEM/Five-Minute-Settlement/Systems-Workstream</u>.



## Industry risks & issues

Graeme Windley

## Summary

- Latest risk/issue register distributed along with meeting pack
- Update/review at PCF #11
- Risk/issue register is published on 5MS PCF page: <u>https://www.aemo.com.au/Electricity/Nat</u> <u>ional-Electricity-Market-NEM/Five-</u> <u>Minute-Settlement/Program-</u> <u>Management/Program-Consultative-Forum</u>



## Procedures workstream update

**Emily Brodie** 

# Procedures workstream status (Level 3 milestones)

	Pre-con	sultation	Co	onsultatior	ı	
5 MINUTE SETTLEMENT			TIMING			CONTENT
PROCEDURES TRACKING	HLIA	PWG Engagement	Consultation paper	Draft documents	Final documents	Package content
METERING						
1. Metering - Metering Data & Metrology	Jul-18	Jul-18	Sep-18	Jan-19	Mar-19	
2. Metering - MSATS and SLPs	Jul-18	Dec-18 & Mar-19	Apr-19	Jun-19	Aug-19	
3. Metering - Miscellaneous*	Jul-18	Feb-19	n/a	Jun-19	Jul-19	
B2B Procedures - B2B file size	n/a	Feb-19	n/a	n/a	n/a	
SETTLEMENTS						
SRA	Jun-18	Jul-18	n/a	Jul-18	Aug-18	
SRA round #2	Jun-18	Feb-19	Mar-19	Jun-19	Aug-19	
TNSP	Feb-19	Feb-19	n/a	Apr-19	Jun-19	
Estimation	Aug-18	Aug-18	Nov-18	Feb-19	Apr-19	
Reallocations	Dec-18	Dec-18	n/a	Dec-18	Feb-19	
Miscellaneous	Oct-18	Oct-18	Dec-18	Mar-19	May-19	
Prudentials	Aug-18	Sep-18	Apr-19	Jun-19	Aug-19	
DISPATCH						
2. Dispatch - Spot market - Rules consultation	Sep-18	Oct 18 ongoing	Jan-19	Jun-19	Aug-19	
2. Dispatch - Spot market - For comment*	Sep-18	Oct 18 ongoing	n/a	Jul-19	Aug-19	
3. Dispatch - Pricing - Rules consultation	Aug-18	Aug 18 ongoing	Aug-18	Sep-18	Nov-18	
3. Dispatch - Pricing - For comment*	Aug-18	Aug 18 ongoing	n/a	May-19	Jun-19	
4. Dispatch - Miscellaneous*	Jan-19	Feb-19	n/a	May-19	Jun-19	
POWER SYSTEM OPS						
1. Operations - Miscellaneous*	ТВА	Apr 19 ongoing	n/a	n/a	Jul-19	

TIMING Started and on track Started late Overdue

CONTENT
No issues
lssues
Severe issues

### **Consultations - Metering**

#### 5MS Metering package 2

- Publication of the 'Metering Package 2' first stage consultation is delayed; Consultation initially scheduled for 26 April.
- 5MS and GS Rules:
  - have a number of complex interdependencies
  - represent a significant change across various Metering procedures
- Delay is to ensure that the initial draft procedures are of an expected standard, and to enable an effective and efficient consultation process.
- Publication of first stage consultation is now scheduled for Monday 20 May 2019.

### Consultations – settlements & prudentials

#### **Auction Participation Agreement**

- Consultation commenced on 22 March 2019
- First stage submissions due 27 May
- Final Report and procedures scheduled for publication on 5 August
- <u>http://aemo.com.au/Stakeholder-Consultation/Consultations/Five-Minute-Settlement---Auction-Participation-Agreement</u>

#### **NEM Settlement Revision Policy**

- Second stage submissions closed 8 April
- Final report and procedures will be published on 13 May
- <u>http://aemo.com.au/Stakeholder-Consultation/Consultations/Five-Minute-Settlement---NEM-Settlement--Revisions-Policy</u>

#### Transmission Network Service Provider (TNSP) Negative Settlements Residue Procedure

- Consultation commenced on 1 April, not a Rules consultation document
- Submissions due 3 June
- Final report and procedures scheduled for publication 14 June
- <u>http://aemo.com.au/Stakeholder-Consultation/Consultations/Five-Minute-Settlement---NEM-TNSP-Negative-Settlements-Residue-Procedure</u>

#### **Credit Limit Procedures**

- Consultation commenced on 12 April
- First stage submissions due 23 May
- <u>http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement/Procedures-</u>

#### Procedures workstream meetings

- Next PWG scheduled for Tuesday 14<sup>th</sup> May:
  - Update on metering package #2
  - Update on settlements procedures
  - Update on GS implementation rule change request
- Future focus groups:
  - Reconciliation support workshop Wednesday, 22 May 2019, Melbourne
  - Expect to hold further metering focus group meetings in the coming months as we work through metering procedures package #2

# Update: 5MS implementation rule change request (1)

 Expedited rule change request was submitted to the AEMC on 15 March 2019 and is now available at: <u>https://www.aemc.gov.au/rule-changes/5-minute-settlement-</u> and-global-settlement-implementation

- Six areas of change:
  - 1. Determining marginal loss factors (MLFs) at 30-minute or shorter intervals
  - 2. Accommodating fast-start plant in pre-dispatch
  - 3. Process for amending the spot market operations timetable
  - 4. Correction to list of AEMO procedures for 5MS
  - 5. Timing for AEMO to publish unaccounted for energy (UFE) data
  - 6. Clarification around assigning non-market unmetered loads to a transmission node identifier TNI or VTN.

# Update: 5MS implementation rule change request (2)

- AEMO has identified further aspects of the GS Rule that need amending to facilitate implementation:
  - 1. Removing financial responsibility at transmission connection points
  - 2. Settlement of non-market unmetered loads
  - 3. Treatment of embedded generators under GS
- AEMO will submit an addendum to the original rule change request in mid-late May to address these items.



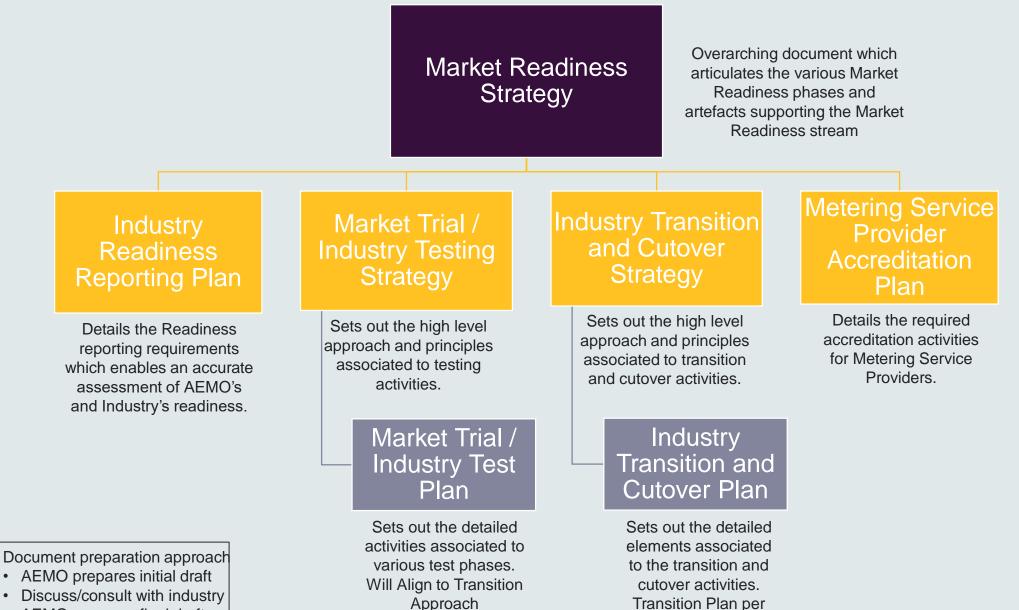
# Readiness workstream update

Greg Minney

### Work Stream Establishment

- Scope of Readiness includes :
  - Market Readiness Strategy and Plan
  - Readiness Reporting
  - Industry And Market Testing
  - Transition and Cutover planning and conduct
  - Metering Accreditation
- Industry Readiness Working Group
  - TOR for consultation with PCF
  - Market Testing Working group to address Market and Industry testing plans
  - Focus Groups to address specific activities (e.g Detailed Cutover Planning)

#### 5MS/GS Readiness



cutover

٠

•

AEMO prepares final draft

#### **Draft Timelines**

Item	Engagement Commences	Draft Paper Released	Final Paper Released
Market Readiness Strategy	June 19	30 August 19	29 Nov 19
Industry Test Strategy	June 19	30 August 19	31 Oct 19
Transition & Go-Live Strategy	July 19	30 Sept 19	31 Jan 20
Market Trial Strategy	August 19	29 Nov 19	28 Feb 20
Metering Service Provider Accreditation Plan	August 19	29 Nov 19	31 Mar 20
Industry Readiness Reporting Plan	Sept 19	29 Nov 19	31 Jan 20

NOTE: Deliverable Dates are currently draft/proposed dates



## Stakeholder update

Monica Morona

### Stakeholder Engagement Status

#### Stakeholder resources

- Calendar: An annual and monthly calendar has now been published and will be regularly updated, providing an overview of all meetings for 2019.
  - Calendar available online: <u>https://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement</u>
- **Consultation status updates:** The consultation status updates have been re-established, with the first email update sent 24 April.
  - The update will be sent twice monthly.
- **Program newsletter:** From May the 5MS will be sending out a regular Program overview email
  - The update will cover general 5MS & GS implementation activities and Program milestones/delivery.

# Stakeholder Engagement – Moving to Readiness

#### Key stakeholder activities

Supporting the workstreams to move towards Readiness and Implementation.

- Stakeholder engagement feedback survey
  Also seeking forum / working group specific feedback
- Update Stakeholder Engagement and Communications Plan – version 2.0
- Review small participant engagement approach
  - Improved / alternative opportunities for engagement



## **Readiness Planning**

**Greg Minney** 

### Establishment of Industry Readiness Working Group

- Comment sought on TOR for Industry Readiness Working Group, prior to approval by AEMO Steering Committee
- Key Aspects:
  - Forum for industry engagement for Market Readiness Process for 5MS and GS
  - Identification of readiness related risks and issues, with escalation as appropriate to Executive Forum and PCF. Forum is not a decision making forum
  - Membership open to all industry stakeholders
  - Working and Focus groups will be established to contribute to specific areas of scope, including Market Testing, Cutover Planning
  - Draft TOR attached

### **Readiness Working Group**

- Feedback on RWG Terms of Reference 24 May 2019
- Membership nominations RWG 31 May 2019
- All feedback and nominations should be sent via 5MS@aemo.com.au



## Procedures Working Group Transition

**Emily Brodie** 

# Approach to transitioning 5MS procedures workstream

- Stage 1: active engagement through PWG on managing 5MS procedure changes (July 2018 to August 2019)
- Stage 2: transitioning to BAU through structured and supported engagement on procedural issues that arise from 5MS/GS implementation e.g. during industry testing and market trials
- Stage 3: **BAU** AEMO teams run procedure changes

# Approach to transitioning 5MS procedures workstream

	Timeframe	Approach
1	May, June 2019	<ul> <li>PWG meetings are scheduled – content will be metering focussed, reporting back on actions, reporting back on focus groups</li> <li>Webex only?</li> </ul>
Stage	July, August 2019	<ul> <li>PWG meetings not scheduled</li> <li>Would run on via webex on an ad hoc basis if required</li> <li>PWG will be adjourned. Any outstanding actions will be closed off via email or, if appropriate, transferred to the PCF, SWG or RWG</li> </ul>
Stage 2	from August 2019 to 2021	<ul> <li>5MS procedure issues arising from program (e.g. PCF, SWG, RWG, mailbox) are recorded in the procedures actions log</li> <li>Procedures action log is maintained and coordinated through the 5MS program</li> <li>5MS procedure changes are managed by those AEMO teams responsible for the relevant procedures</li> <li>Stakeholder engagement will include discussion/consultation through 5MS forums where appropriate</li> </ul>
ge 3	2021 onwards	<ul> <li>BAU - procedure changes are managed through those AEMO teams responsible for the relevant procedures</li> </ul>



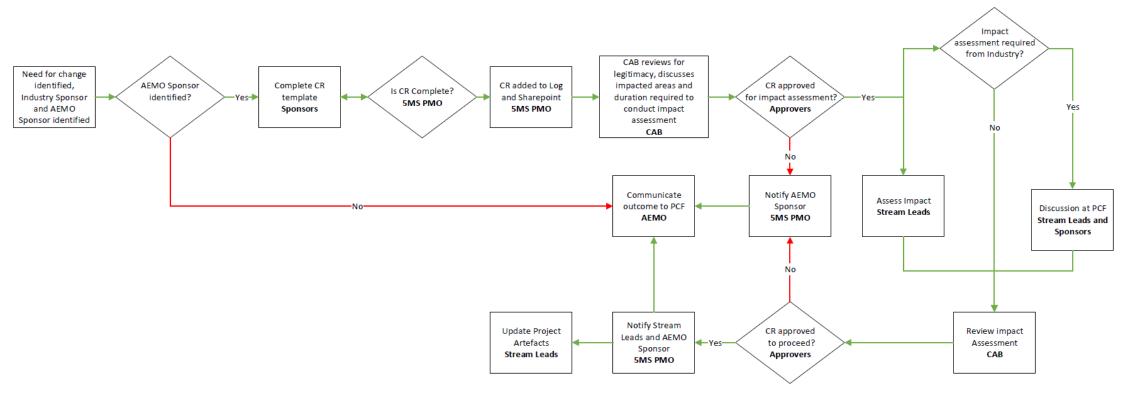
## Program Change Request Process

**Blaine Miner** 

#### Program CR process

- The 5MS Program Change Request (CR) process has been established to capture and consider opportunities/changes identified by either AEMO and/or market participants
- Potential CRs are to be submitted by completing the 5MS Program CR form
  - The submission of a completed CR form commences the CR assessment and approval process
- As part of the assessment process, the PCF may be engaged to consider the CRs value proposition
- The PCF, and the CR sponsors, will be notified of CR assessment outcomes

### **CR** Process Flow Diagram



#### **CR** Form



#### Industry Project Change Request

Project Name	5MS and GS Program	ld	[AEMO to allocate]
Industry Sponsor(s)		Date	Click here to enter a date.
AEMO Sponsor			
Change Type	Choose an item.		
Problem or Issue Description	[What is the issue or problem this change will address?]		
Must, Should, Could, Nice to Have?	Choose an item. Impacted Participants	Choose	an item.
Change description and reason	[Describe the nature of the change and the reason for it.]	•	
High Level Industry Benefits and Impacts	List any additional benefits/impacts created by this change to Particip	ants	
Out Of Scope	List any items out of scope for this Change Request		

# Change Requests currently under consideration

CR#	Title	Objective	Status
CR0 1	Calculation Engine Certification	Implementation of an independent certification process for the settlement calculation engine, to improve confidence in settlement results	As discussed at Settlement Focus Group, AEMO is currently scoping
CR0 4	Pre- Dispatch	Enhancements to 5-minute Pre- dispatch, to provide improved market information in response to 5MS and the changing generation mix	Raised through 5MS Dispatch Focus Group, and seeking quantifiable benefits/impacts from participants
CR0 7	Reconciliatio n reporting	Opportunities to provide additional metering/settlement data to improve reconciliation	Pending discussion at the Reconciliation Workshop on 24 May



## General questions

Chris Muffett

# Further information

- AEMO 5MS Program contacts:
  - Graeme Windley, 5MS Program Manager
  - Chris Muffett, 5MS Business Lead
  - Emily Brodie, 5MS Procedure Lead
  - Greg Minney, 5MS Readiness Manager
  - Malcolm Borschman, 5MS Systems Lead
  - Peter Carruthers, 5MS Business Advocate
  - Monica Morona, 5MS & GS Stakeholder Engagement
- Contact details:

- 5MS email: <u>5ms@aemo.com.au</u>
  - 5MS webpage: http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement



# Forward meeting plan

Chris Muffett

#### Upcoming meetings

Meetings and forum dates: http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement

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

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



National Public Holiday State Public Holiday

