

# NEM Reform Industry Testing Working Group

Meeting #6  
29 June 2023



# 1. Welcome

We acknowledge the Traditional Owners of country throughout Australia and recognise their continuing connection to land, waters and culture.

**We pay respect to their Elders past, present and emerging.**

# Agenda

#	Time	Topic	Presenter
1	10:30-10:35am	<b>Welcome</b>	Greg Minney
2	10:35-10:40am	<b>Actions &amp; Feedback from Previous Meeting</b>	Greg Minney
3	10:40-11:15am	<b>Approach for August – October Testing</b> <ul style="list-style-type: none"><li>• ADC invitation Approach</li><li>• Fast Frequency Response Approach</li><li>• MT PASA Approach</li><li>• 5MLP Approach</li></ul>	Greg Minney, Charmaine Sabay & Chris Fleming
4	11:15-11:20am	<b>Upcoming Engagements</b>	Lenard Bayne
5	11:20-11:30am	<b>General Questions and Other Business</b>	Greg Minney

**Appendix A: Competition law meeting protocol**

**Appendix B: Industry Testing Approaches**

*“Please note that this meeting will be recorded by AEMO and may be accessed and used by AEMO for the purpose of compiling minutes. By attending the meeting, you consent to AEMO recording the meeting and using the record for this purpose. No other recording of the meeting is permitted”*

## 2. Actions & Feedback from Previous Meeting

# Actions & Feedback from Previous Meeting

(Ref: Item = Meeting number/Agenda item number/Ref)

#	Topic	Action	Responsible	Status
5.4.4.2	Fast Frequency Response (FFR) Approach	AEMO to publish industry fact sheets on the Implementation Forum and ITWG web pages	AEMO	Closed
4.3.3.1	SAPS Testing	AEMO to follow up with Jake Lee (Energex) with regards to SAPS Invitation testing.	AEMO	Closed

# 3. Approach for August – October Testing

# Aggregated Dispatch Conformance (ADC) approach





# ADC industry testing – July 2023

<b>WHO?</b>	Stakeholders who can participate in the ADC industry testing are: <ul style="list-style-type: none"> <li>• BESS operators</li> <li>• Kennedy (Windlab) and Port Augusta (Iberdrola)</li> </ul>	
<b>WHEN?</b>	10 Jul to 08 Aug 2023	ADC industry test period
	From 09 Aug 2023	<ul style="list-style-type: none"> <li>• ADC live in production, BESS and existing ADC participants migrated to ADC</li> <li>• ADC opens for registration for providers who wish to utilise</li> <li>• BAU testing (and support) for ADC will remain available in pre-production for ADC-registered participants.</li> </ul>
<b>WHAT?</b>	Industry testing	
<b>NEXT STEPS</b>	<ul style="list-style-type: none"> <li>• AEMO will notify industry participants when they can start testing the ADC functions in Pre-prod.</li> <li>• AEMO will hold bi-weekly Q&amp;A sessions with participants to support and discuss any issues encountered. Invitations to be sent this week</li> </ul>	

# ADC Industry Test Timeline

## ADC Industry Test Timeline

Month

July

August

Pre-production

Industry  
Test Start  
10/7



Industry  
Test End  
08/8



09/8  
ADC go-live



July 23

Mo	Tu	We	Th	Fr	Sa	Su
					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 23

Mo	Tu	We	Th	Fr	Sa	Su
	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			

# ADC Industry Testing Scope

#	ADC TEST ACTIVITY	
1	Verify ADC enhancements to <b>registration and dispatch data models</b>	<ul style="list-style-type: none"> <li>• Verify can receive and interpret ADG registration report for DUIDs</li> <li>• Verify at the individual DUID and aggregate level, can receive and interpret dispatch instructions, pre-dispatch and 5MPD</li> </ul>
2	Verify ADC enhancements to <b>NEM reports and market notices</b>	<ul style="list-style-type: none"> <li>• Subscribe to updated NEM reports : DISPATCHIS and DISPATCH_CONFORMANCE</li> <li>• Verify can receive and interpret the DISPATCH_CONFORMANCE reports at the individual DUID and aggregate level</li> <li>• Verify ingestion and interpret new aggregated non-conformance market notices with updated wording</li> </ul>

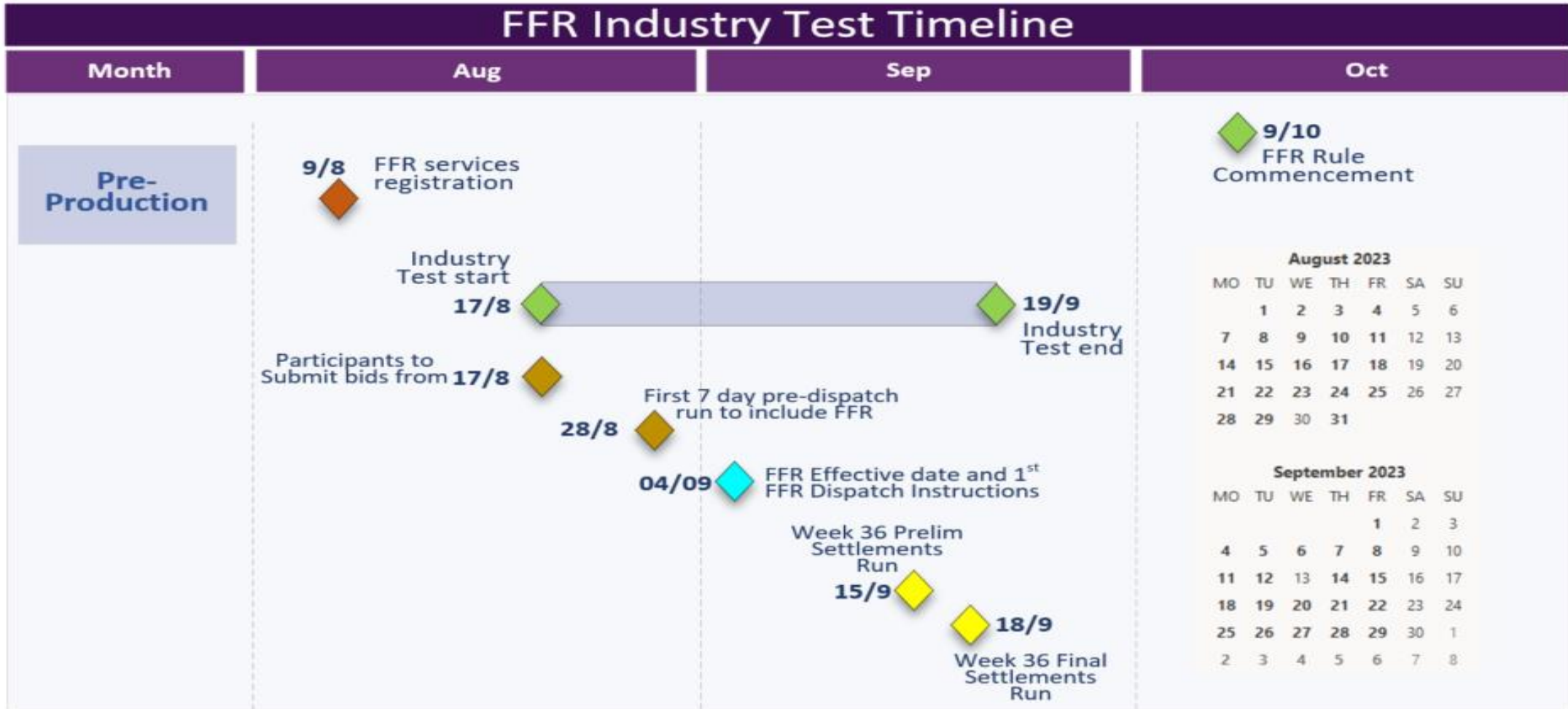
# Fast Frequency Response (FFR) Approach



# FFR industry testing – August 2023

<b>WHO?</b>	Interested Participants, including all energy and FCAS providers	
<b>WHEN?</b>	<b>From 09 Aug</b>	FFR services registration. Successful registrations will be added to pre-prod for industry test.
	<b>17 Aug to 19 Sept 2023</b>	FFR industry test period <ul style="list-style-type: none"> <li>Participants to submit bids from 17 Aug</li> </ul>
	<b>28 Aug 2023</b>	Pre-dispatch to include FFR offers
	<b>03 Sept 2023</b>	5min Pre-dispatch to include FFR offers
	<b>04 Sept 2023</b>	FFR offers included in Dispatch instructions
	<b>15 Sept 2023</b>	Week 36 Prelim Settlements Run
	<b>18 Sept 2023</b>	Week 36 Final Settlements Run
	<b>WHAT?</b>	Industry Testing <ul style="list-style-type: none"> <li>AEMO will coordinate with participants on the timings of when runs are performed.</li> </ul>
<b>NEXT STEPS</b>	<ul style="list-style-type: none"> <li>AEMO will hold recurring Q&amp;A sessions commencing from 09 Aug inclusive of overview of issues/defects.</li> <li>AEMO will communicate to participants about settlement runs in the Pre-prod environment.</li> <li>AEMO will manage issues found during industry testing.</li> </ul>	

# FFR Industry Test Timeline



# FFR Industry testing scope

#	FFR TEST ACTIVITY
1	Participants established in pre-prod can submit bids for Very Fast FCAS
2	Ingest pre-dispatch (from 28/08) and dispatch instructions (from 04/09)
3	Regression test bid, dispatch, and Wholesale Data Interchange functionality
4	Test bidding processes and automated energy/FCAS trading tools are working correctly
5	Ingest Settlement changes for generators and load market customers (NB results will not reflect production runs given approach to production of Metering Data)

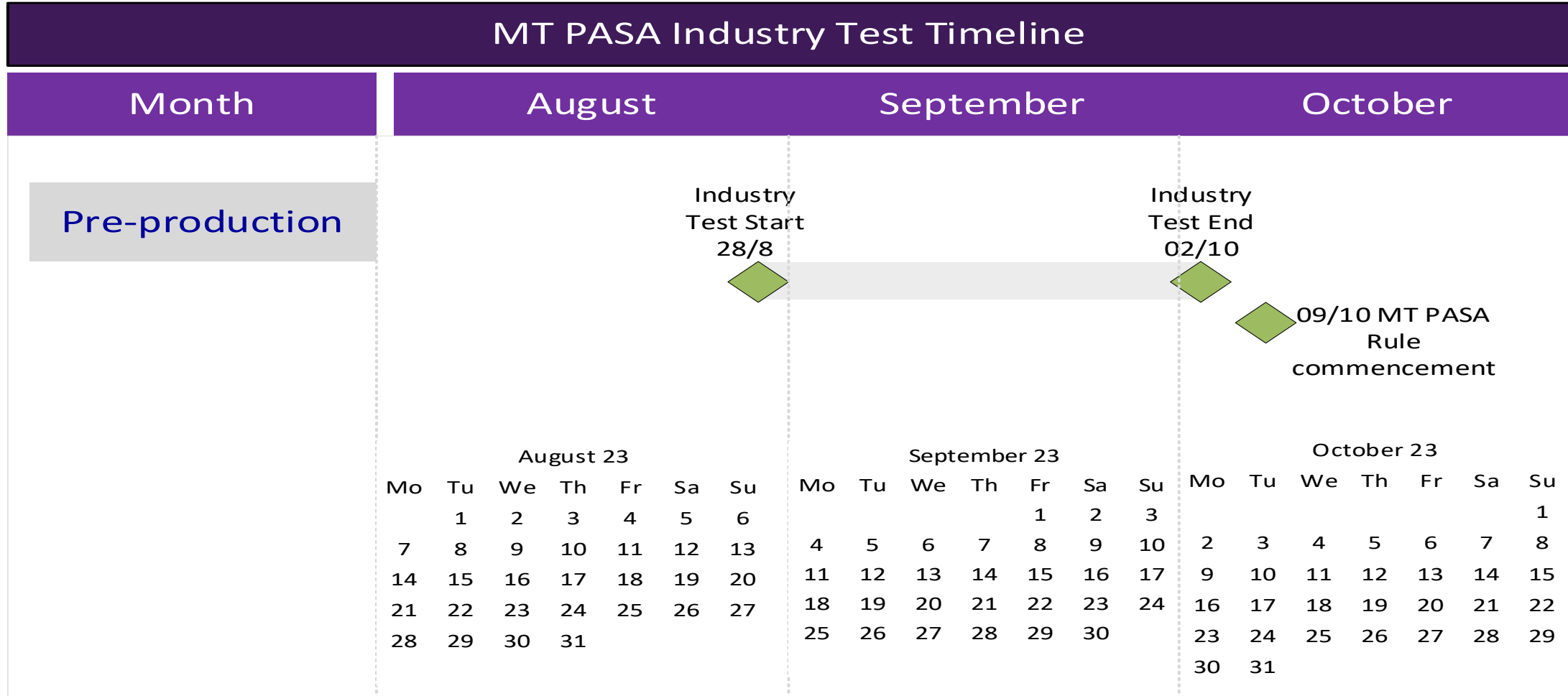
# MT PASA Approach



# MT PASA Industry Testing

<b>WHO?</b>	Existing Scheduled generators and providers	
<b>WHEN ?</b>	<b>28 Aug to 02 Oct 2023</b>	MT PASA industry test period <ul style="list-style-type: none"> <li>• Participants will be able to submit offers via FTP, Web and API.</li> <li>• Receive NEM Reports reflecting updated offers</li> </ul>
<b>WHAT?</b>	Industry Testing for Individual participant confirmation of their updates	
<b>NEXT STEPS</b>	<ul style="list-style-type: none"> <li>• AEMO will hold recurring Q&amp;A sessions with participants to support industry test and discuss any issues encountered.</li> </ul>	

# MT PASA Industry Test Timeline

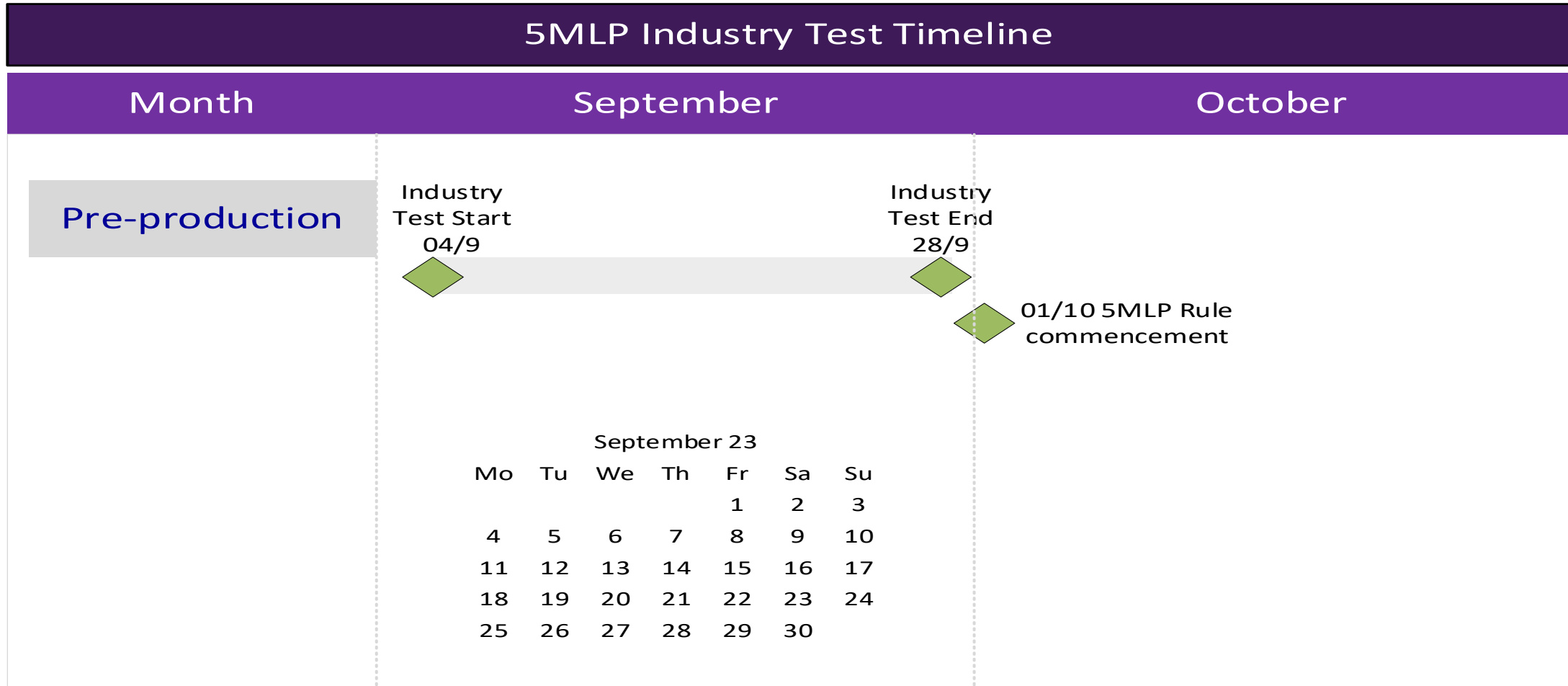


# 5MLP Approach

# 5MLP industry testing approach

<b>WHO?</b>	Interested Market Participants	
<b>WHEN?</b>	<b>04 Sept to 28 Sept 2023</b>	5MLP industry test period
<b>WHAT?</b>	<p>Industry Testing</p> <ul style="list-style-type: none"> <li>• AEMO will coordinate with market participants on timings of when runs are performed.</li> <li>• Validation in Preprod to be via RM reporting based on 183 days data in the following sequence:             <ol style="list-style-type: none"> <li>1. Baseline runs with weights (current profiling methodology)</li> <li>2. Baseline runs without weights (current profiling methodology)</li> <li>3. Run with new methodology (without weights)</li> </ol> </li> </ul>	
<b>NEXT STEPS</b>	<ul style="list-style-type: none"> <li>• AEMO will hold recurring Q&amp;A sessions with participants to support industry testing and discuss any issues encountered.</li> </ul>	

# 5MLP Industry Test Timeline



# 4. Upcoming Engagements

# Upcoming Engagements

July						
S	M	T	W	T	F	S
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23	24	25	26	27	28	29
30	31					

August						
S	M	T	W	T	F	S
		1	2	3	4	5
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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

September						
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24	25	26	27	28	29	30

October						
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				

NEM Reform Program Forums
Program Consultative Forum
Reform Delivery Committee
Reform Delivery Committee - Collab W.
Implementation Forum
Electricity Wholesale Consultative Forum
Electricity Retail Consultative Forum
Industry Testing Working Group
Initiative Specific Meetings
NEM Reform Foundational and Strategic initiatives
Other
National Public Holiday
State/Territory Public Holiday

**Note** - Please note that the Frequency Performance Payments (FPP) participant impact focus group will be held on 30 June. Please forward your request to [FPPConsultation@aemo.com.au](mailto:FPPConsultation@aemo.com.au)

To learn more about these events, please visit AEMO's [Industry meeting calendar](#) or contact the program at [NEMReform@aemo.com.au](mailto:NEMReform@aemo.com.au).

# 5. General Questions and Other Business



[NEM2025@aemo.com.au](mailto:NEM2025@aemo.com.au)



[NEM Reform Industry Testing Working Group](#)





# Appendix A: Competition law meeting protocol

# 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**:

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

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

- Which customers they will supply or market to
- The price or other terms at which Participants will supply
- Bids or tenders, including the nature of a bid that a Participant intends to make or whether the Participant will participate in the bid
- Which suppliers Participants will acquire from (or the price or other terms on which they acquire goods or services)
- 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.

# Appendix B: Industry Testing Approaches

# Approaches to Industry Testing

AEMO provides opportunity for Industry participants to test their updated systems and processes prior to release of AEMO updates into production.

The approach to the level of co-ordination, integrated planning and scenario management that is provided is dependant on a number of factors including:

- Impact to end-to-end participant process flows
- Ability of impacted participants to successfully test changes without AEMO or other participant co-ordinated activity
- Number and range of participants impacted by release

The approaches to Industry testing are described as:

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

In all cases involvement in testing is voluntary on participants behalf.

Agreement on approach to the type of industry testing for a release is conducted through the Implementation forum and Industry Test Focus Group along with support arrangements during the test period.



For more information visit

[aemo.com.au](http://aemo.com.au)