

NEM Reform Industry Testing Working Group

Meeting #7
27 July 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	Welcome	Greg Minney
2	10:35-10:40am	Actions & Feedback from Previous Meeting	Greg Minney
3	10:40-11:15am	Approach for August – November Testing <ul style="list-style-type: none">• ADC Summary Update• Fast Frequency Response Approach• 5MLP Approach• MT PASA Approach• LCCD Approach• Metering Exemptions Approach	Greg Minney, Charmaine Sabay & Chris Fleming
4	11:15-11:20am	Upcoming Engagements	Lenard Bayne
5	11:20-11:30am	General Questions and Other Business	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
6.3.0.1	5MLP Approach	AEMO to confirm with market participants on timings of when 5MLP runs are performed.	AEMO	Open

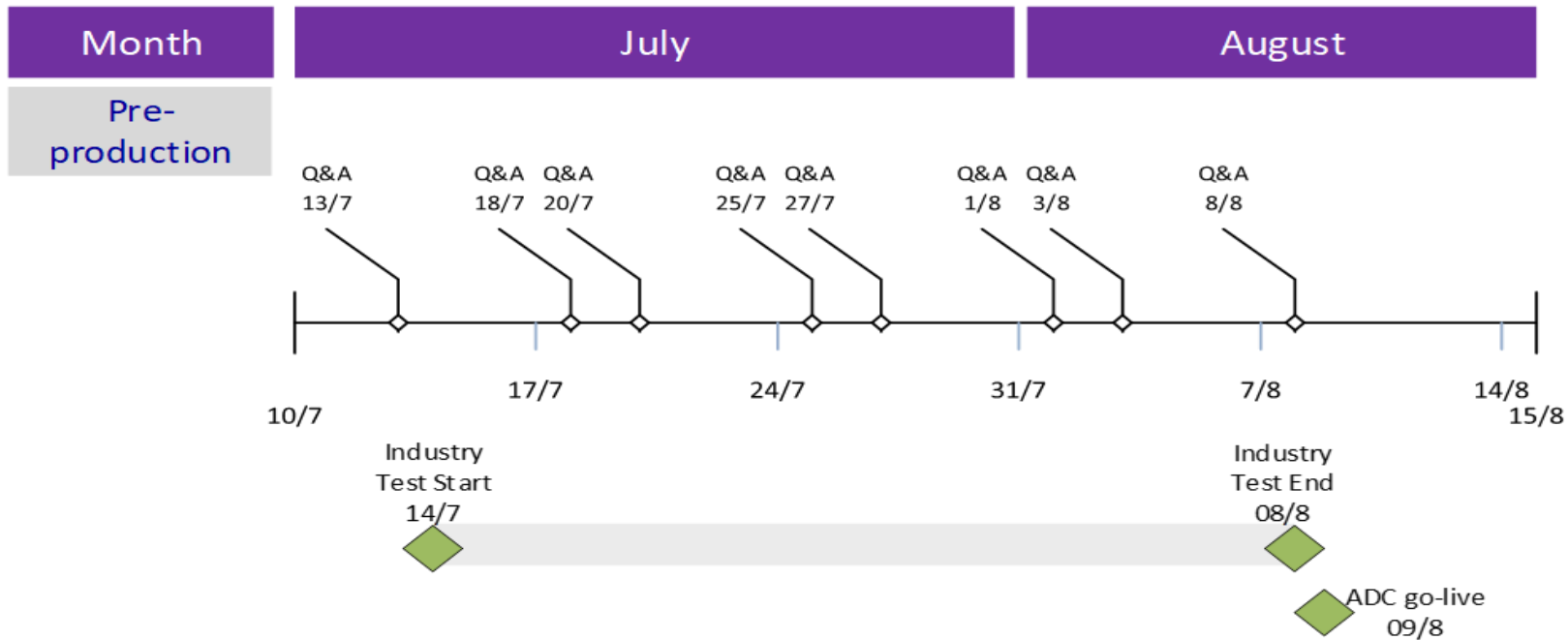
3. Approach for August – November Testing

ADC Summary Update

Verbal Update

ADC Summary

- Industry Test and Q&A sessions are in progress.
- ADC Go-live on 09 Aug and BAU process kick-off, ADC registration open

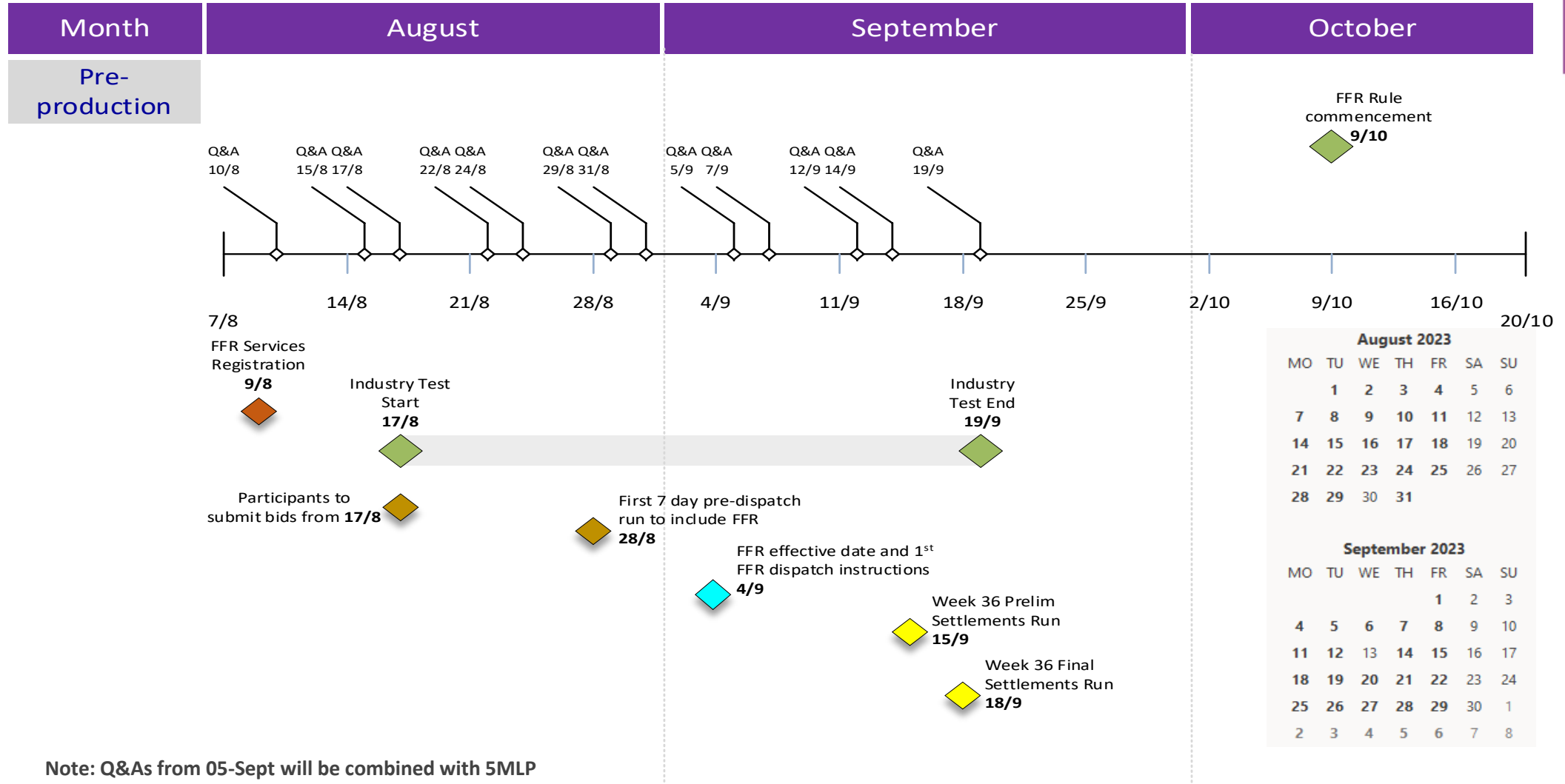


Fast Frequency Response (FFR) Approach

FFR industry testing – August 2023

WHO?	Interested Participants, including all energy and FCAS providers Interested participants are strongly encouraged to submit Registration applications as soon as possible from 09 August.	
WHEN?	From 09 Aug	FFR services registration. Successful registrations will be added to pre-prod for industry test.
	17 Aug to 19 Sept 2023	FFR industry test period <ul style="list-style-type: none"> Participants to submit bids from 17 Aug
	28 Aug 2023	7-day Pre-dispatch to include FFR offers
	03 Sept 2023	5min Pre-dispatch to include FFR offers
	04 Sept 2023	FFR offers included in Dispatch instructions
	15 Sept 2023	Week 36 Prelim Settlements Run
	18 Sept 2023	Week 36 Final Settlements Run
WHAT?	Industry Testing	
NEXT STEPS	<ul style="list-style-type: none"> AEMO will hold twice-weekly Q&A sessions commencing from 09 Aug inclusive of overview of issues/defects. AEMO will communicate to participants about settlement runs in the Pre-prod environment. AEMO will manage issues found during industry testing. 	

FFR Industry Test Timeline



Note: Q&As from 05-Sept will be combined with 5MLP

FFR industry testing approach

Objectives

To optionally provide participants the opportunity to:

- prove their updated systems against AEMO's market systems.
- test end-to-end scenarios of updated processes and procedures.
- to contribute to their assessment of overall industry readiness for rule commencement.

Approach

Industry test allows industry participants to further test their system with AEMO's.

In particular to:

- perform pre-prod demonstration of ability to submit bids for Very Fast FCAS as part of the Registration process to provide the new very fast FCAS services. (Applicants established in Pre-prod to perform this demonstration.) Submit and verify FCAS bids via the FTP, API, or Markets Portal 'Energy & FCAS 5min Bids' capability.
- ingest pre-dispatch and dispatch instructions, FFR enhancements to Wholesale Data Interchange MMS Data Model (DISPATCH, P5MIN, PREDISPATCH, TRADING_DATA, FORCE_MAJEURE packages).
- regression test bid, dispatch, and Wholesale Data Interchange functionality (participating and non-participating providers for the new services).
- test bidding processes and automated energy/FCAS trading tools are working correctly.
- ingest Settlement changes for generators and load market customers showing recovery calculations for the new service i.e., Settlement reports and data model via Wholesale Data Interchange (Settlement and Billing packages) and download via Settlements Direct (Markets Portal application). This will not enable full reconciliation but will enable participants to test ingestion of new settlements report data.

5MLP Approach

5MLP industry testing approach

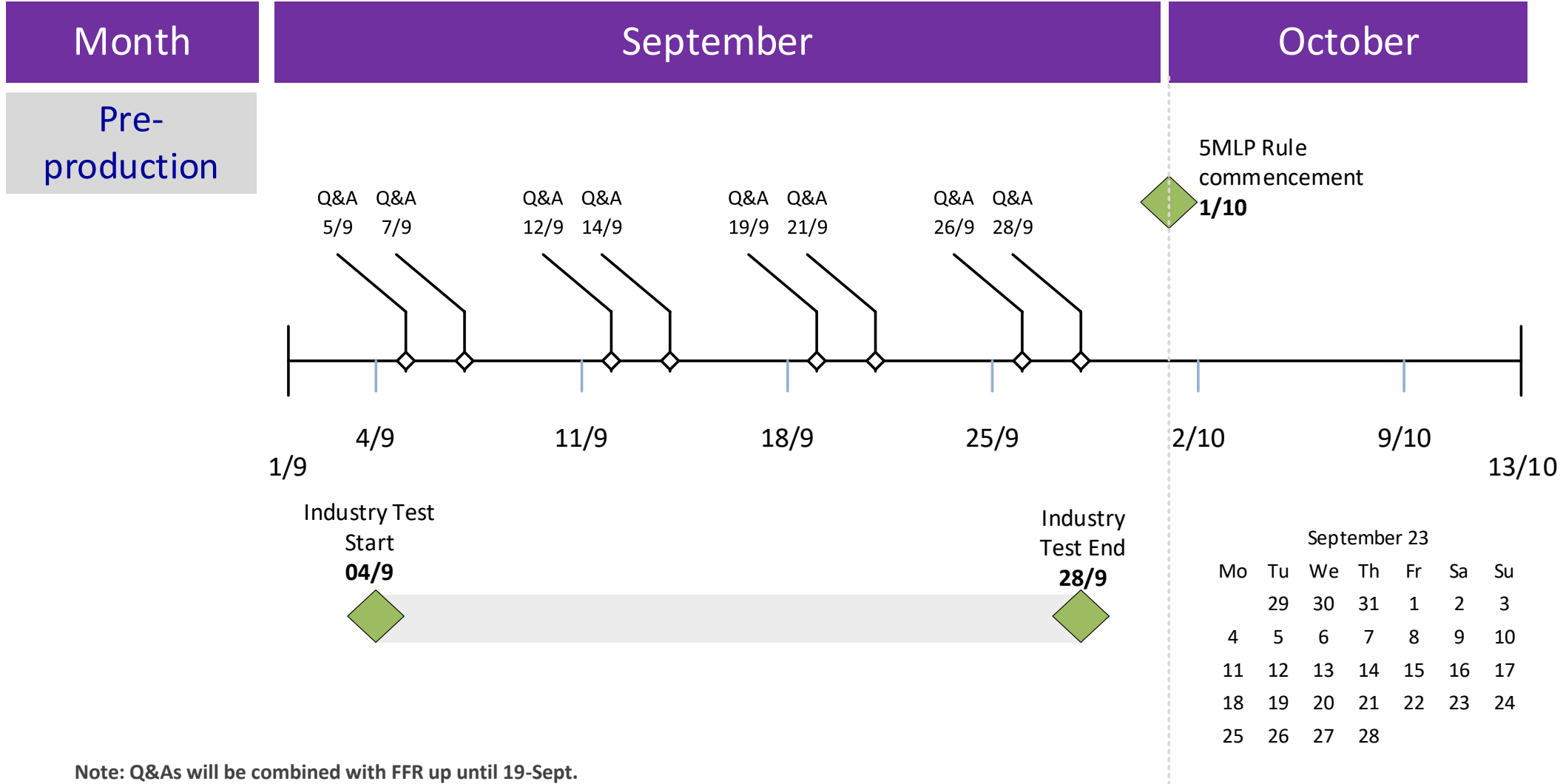
WHO?	Interested Market Participants	
WHEN?	04 Sept to 28 Sept 2023	5MLP industry test period
WHAT?	<p>Industry Testing</p> <ul style="list-style-type: none"> • Demonstrate the changes to the profiling methodology to convert 15 and 30-minute interval metering data into 5-minute intervals. • Preprod shakeout in the week prior to industry test period (28 Aug – 01 Sept) • Validation in Preprod to be via RM reporting based on 180 days data in the following sequence: <ol style="list-style-type: none"> 1. Baseline runs with weights (current profiling methodology) 2. Baseline runs without weights (current profiling methodology) 3. Run with new methodology (without weights) • Participants can compare the profiling outcomes via the relevant RM reports (RM20, RM16, RM17, also potentially UFE RM reports). • Report cycle will be run for a selected period and shared with Participants as early as possible in the Industry Test window. Report cycle for a subsequent period will then be run to provide further validation. • AEMO will coordinate testing to ensure that Case IDs and Periods don't overlap with the FFR industry test. 	

5MLP industry testing approach

NEXT STEPS

- AEMO will hold twice-weekly Q&A sessions with participants to support industry testing and discuss any issues encountered. Sessions will coincide with the FFR Q&A
- AEMO will coordinate with market participants on timings of when the reports will be published and respective case IDs and periods.

5MLP Industry Test Timeline



Note: Q&As will be combined with FFR up until 19-Sept.

MT PASA Approach

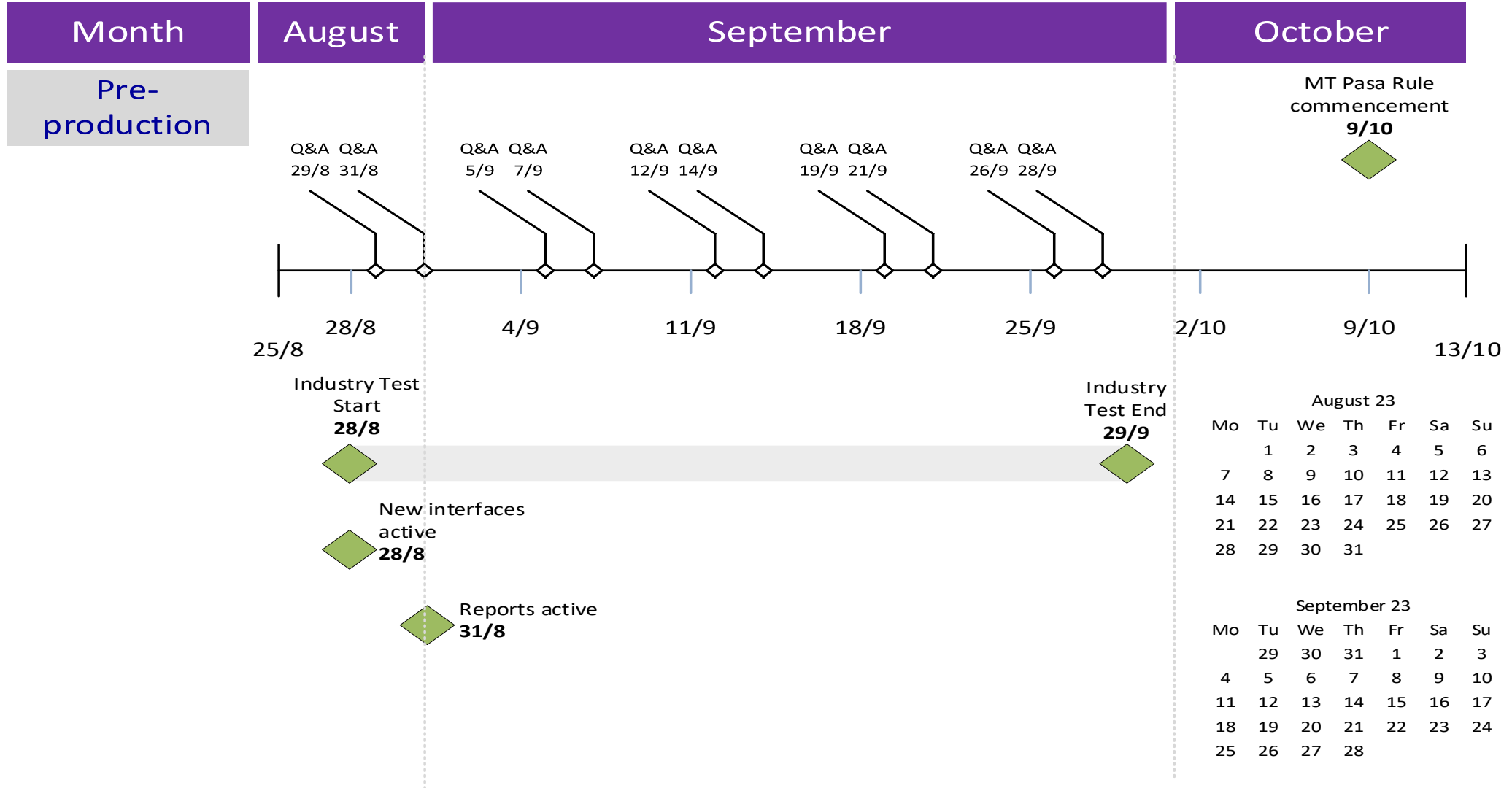
MT PASA Industry Testing

WHO?	Existing Scheduled generators and Scheduled Bi-directional units, Optional for TNSPs and Scheduled Loads	
WHEN?	28 Aug to 29 Sept 2023	MT PASA industry test period <ul style="list-style-type: none"> • Participants will be able to submit offers via FTP, Web and API. • Receive NEM Reports reflecting updated offers from 31-Aug
WHAT?	Industry Testing for Individual participant confirmation of their updates	
NEXT STEPS	<ul style="list-style-type: none"> • AEMO will hold twice-weekly Q&A sessions with participants to support industry test and discuss any issues encountered. 	

Key Dates Details

Date	Activity	Description
28 August	Industry Test Starts	<ul style="list-style-type: none"> • New interfaces active which will mirror 4/10 prod deployment • Participants can submit offers via FTP, Web or API • Participants interested to submit via API are required to apply to URM rights and TLS certificates via the Market Portal
31 August	Reports showing participant data	<ul style="list-style-type: none"> • Reports active which mirrors 9/10 prod deployment • Participants to subscribe to new reports
29 September	Industry Test concludes	<ul style="list-style-type: none"> • Preprod remains available for participants to test on their own

MT PASA Industry Test Timeline



November Release

November Release Industry Test Approach

Objectives

To provide participants the opportunity to:

- prove their updated systems against AEMO's market systems.
- test end-to-end scenarios of updated processes and procedures.
- to contribute to their assessment of overall industry readiness for rule commencement.

Approach

CDR

LCCD - CR5056 & CR5057 available for Industry Test in pre-prod from 1 Sept.

Testing is optional for participants.

Registration and pre-prod testing of CDR APIs is via the BAU process.

MSDR

MSDR Compliance Holiday end / removal of unstructured address search effective 7 November. Industry Test is optional for Participants.

Industry Test will be unstructured. Participants will be encouraged to test the respective CR3000 and CR5000 series CRs to ensure compliance with the additional validation.

Participants will also need to ensure that there are no processes dependent on the searching or return of unstructured addresses

Industry Test timing – 2 October to 27 October.

Metering Exemptions

Industry testing will be by invitation and will be open to MCs.

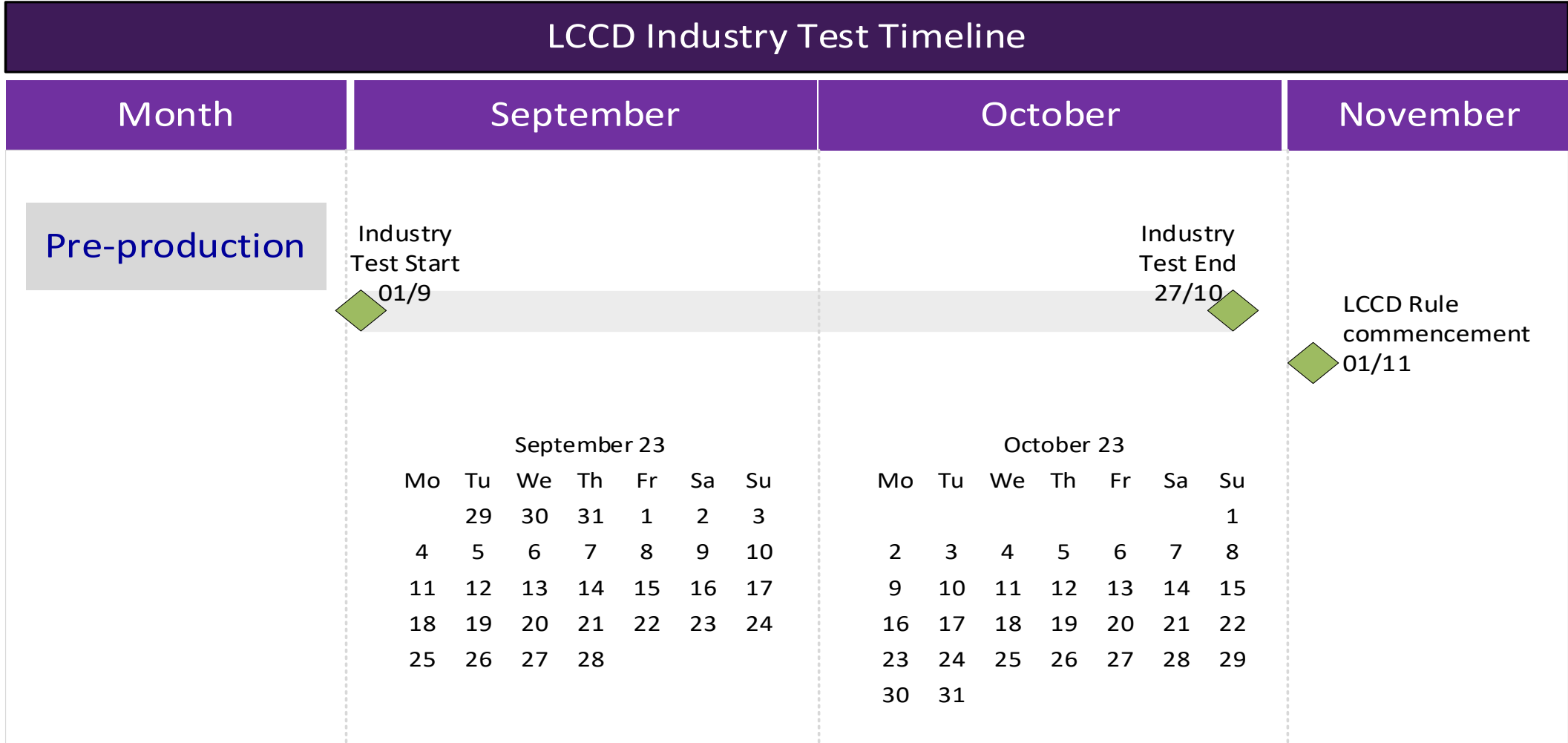
Existing metering exemption data will be migrated to MSATS in readiness for the Industry Test.

Participants using the Meter Exemptions APIs will need to apply for certificates using the BAU process, refer to following guide [Obtain a new certificate \(aemo.com.au\)](https://www.aemo.com.au/industry-test/industry-test-approach/industry-test-approach)

AEMO will progress metering exemptions to enable lifecycle testing of exemptions and generation of CRs (CR5101)

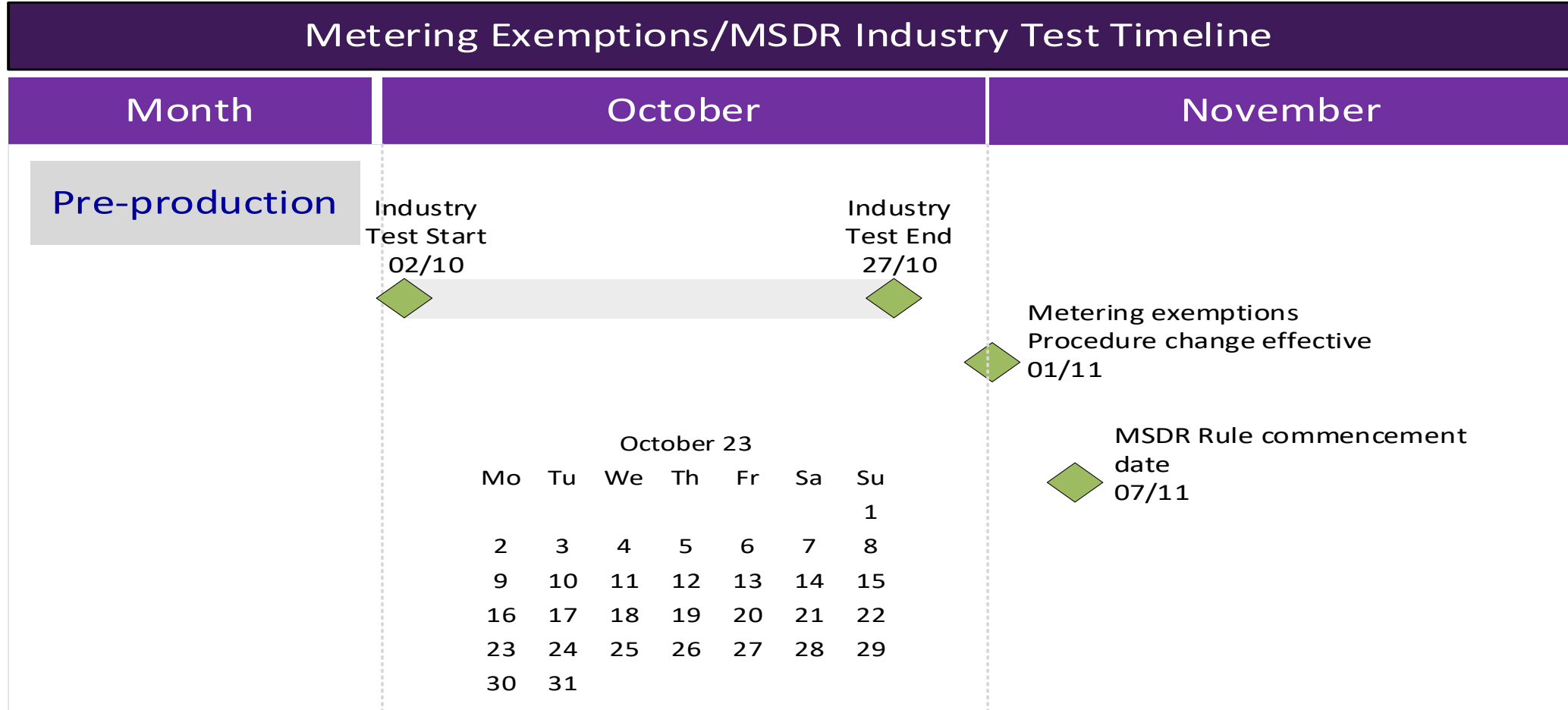
Industry Test timing – 2 October to 27 October. AEMO is assessing options to make APIs available at an earlier date to increase the test window.

LCCD Industry Test Timeline



Note: Q&As will be combined with 5MLP from 5-Sept

Metering Exemptions/MSDR Industry Test Timeline



4. Upcoming Engagements

Upcoming Engagements

July						
S	M	T	W	T	F	S
						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						
S	M	T	W	T	F	S
		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						
S	M	T	W	T	F	S
					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

October						
S	M	T	W	T	F	S
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 Committees/Forums

NEM Reform Program Consultative Forum	
NEM Reform Delivery Committee	
NEM Reform Delivery Committee - Collab W	
NEM Reform Implementation Forum	
NEM Reform Electricity Wholesale Consultative Forum	
NEM Reform Executive Forum	
NEM Reform Industry Testing Working Group	

NEM Reform Initiative Specific

Foundational and Strategic Initiatives	
IESS Settlement Workshop	
IESS BDU Workshop	

Other Forums

AEMO Consumer Forum	
Market Systems User Group (MSUG)	

Other

Natioanl Public Holiday	
State/Territory Public Holiday	

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

5. General Questions and Other Business



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
Industry testing	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
Invitation industry testing	Coordinated testing of business process scenarios with a select number or subset of participants with systems ready for testing.	Testing NMI transfer Process
Market trials	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