

NEM Reform Industry Testing Working Group

Meeting #8
31 August 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 and present.**

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	10:40-11:10am	Approach for August – November Testing <ul style="list-style-type: none">• Fast Frequency Response Summary Update• 5MLP Approach• MT PASA Approach• LCCD Approach• Metering Exemptions/MSDR Approach	Greg Minney, Charmaine Sabay & Chris Fleming
4	11:10-11:15am	IESS June 2024	
5	11:15-11:20am	Upcoming Engagements	Lenard Bayne
6	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
7.3.0.1	FFR Approach	AEMO to provide a link to the application forms for FFR registration	AEMO	Closed

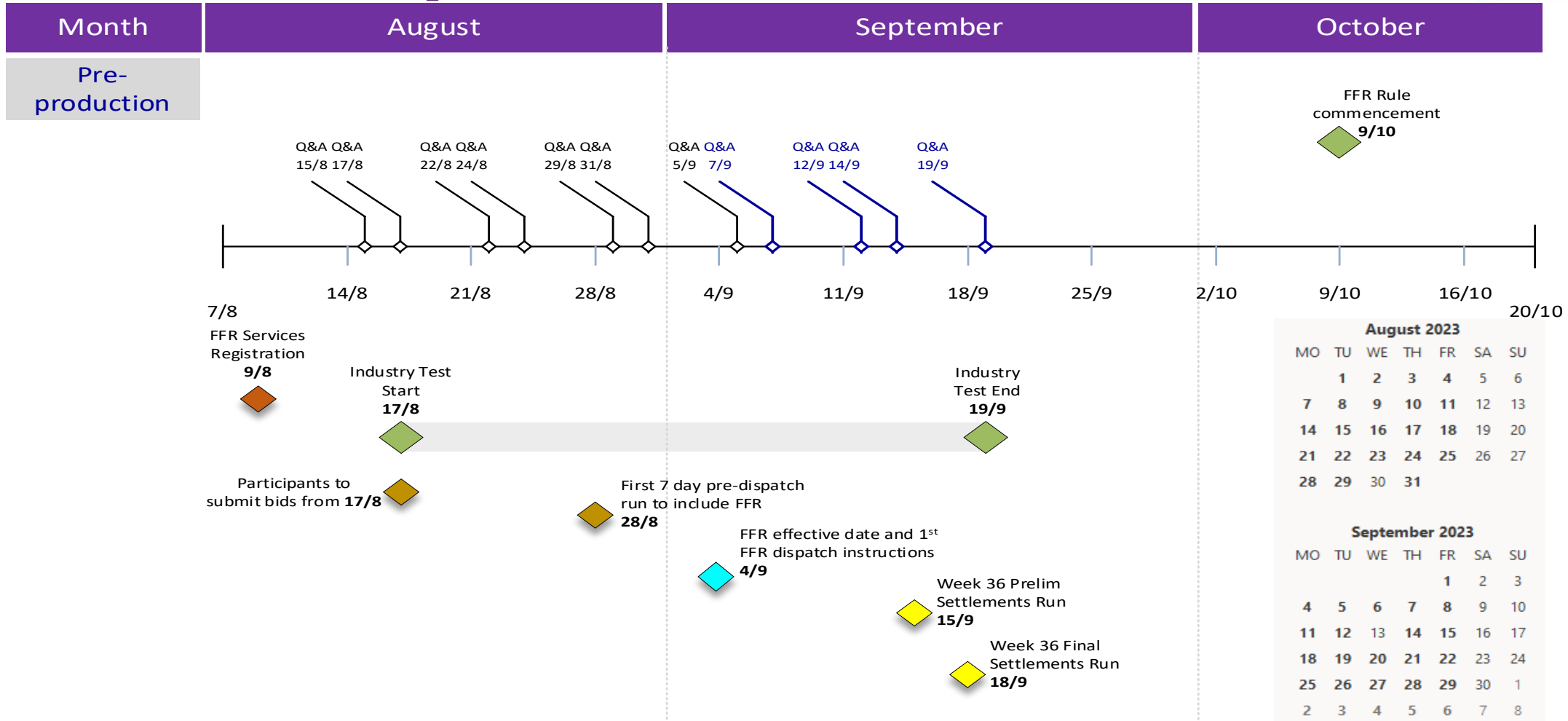
3. Approach for August – November Testing

Fast Frequency Response (FFR) Summary Update

FFR Summary Update

- Industry Test and Q&A sessions are in progress.
- Upcoming Activities in Pre-prod:
 - Participants will be able to ingest 1s Raise and Lower pre-dispatch (from 28/08), and dispatch instructions (simulated market start 04/09) via Wholesale Data Interchange.
 - On 04/09, AEMO will constrain all registered DUIDs to 0 MW of 1s Raise and 1s Lower dispatch between 4AM and 1PM.
 - Settlement runs are scheduled to be performed on 15/09 (preliminary run) and 18/09 (final run). Participants will be able to ingest Settlement reports based on week one of FFR dispatch data for week 36 (03/09 to 09/09).

FFR Industry Test Timeline



Note: Q&As from 07-Sept to 19-Sept will be combined with 5MLP

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

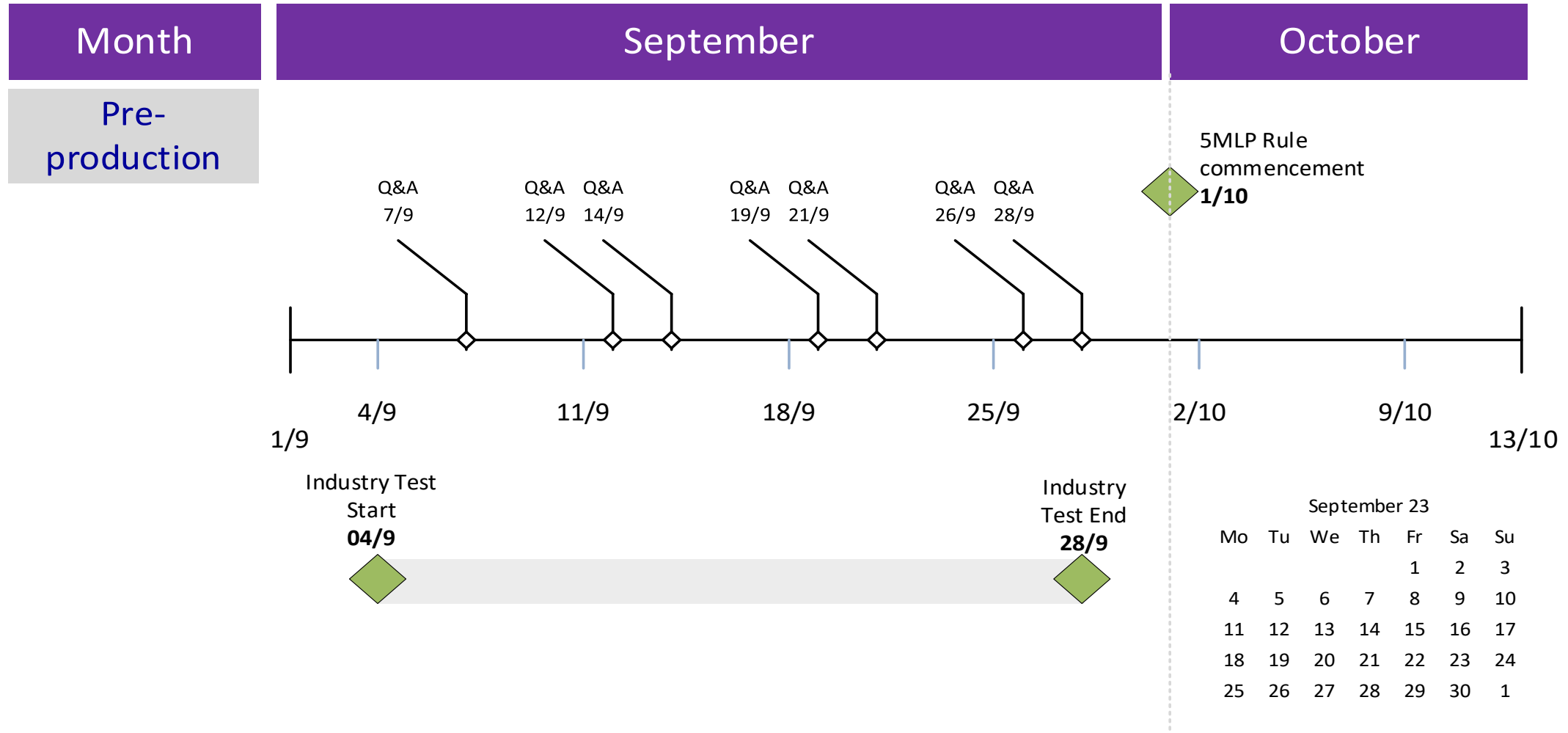
NEXT STEPS

- 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.

Key Dates Details

Date	Activity	Description
28 Aug – 01 Sept	Preprod shakeout	<ul style="list-style-type: none"> • AEMO will implement preprod shakeout prior to Industry test
04 Sept – 08 Sept	Deployment and verification	<ul style="list-style-type: none"> • Preprod Deployment and verification • Validation in Preprod based on 180 days data
11 Sept – 18 Sept	Reports generated	<ul style="list-style-type: none"> • Baseline runs with weights (current profiling methodology) will be performed • Baseline runs without weights (current profiling methodology) will be performed • Run with new methodology (without weights) will be performed • AEMO to notify participants of the report availability
19 Sept – 26 Sept	Participant Review and Feedback	<ul style="list-style-type: none"> • Participants can compare the profiling outcomes via the relevant RM reports (RM20, RM16, RM17, also potentially UFE RM reports) • Participants to review and provide feedback
28 September	Industry Test concludes	<ul style="list-style-type: none"> • Preprod remains available for participants to test on their own

5MLP Industry Test Timeline



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

MT PASA Approach

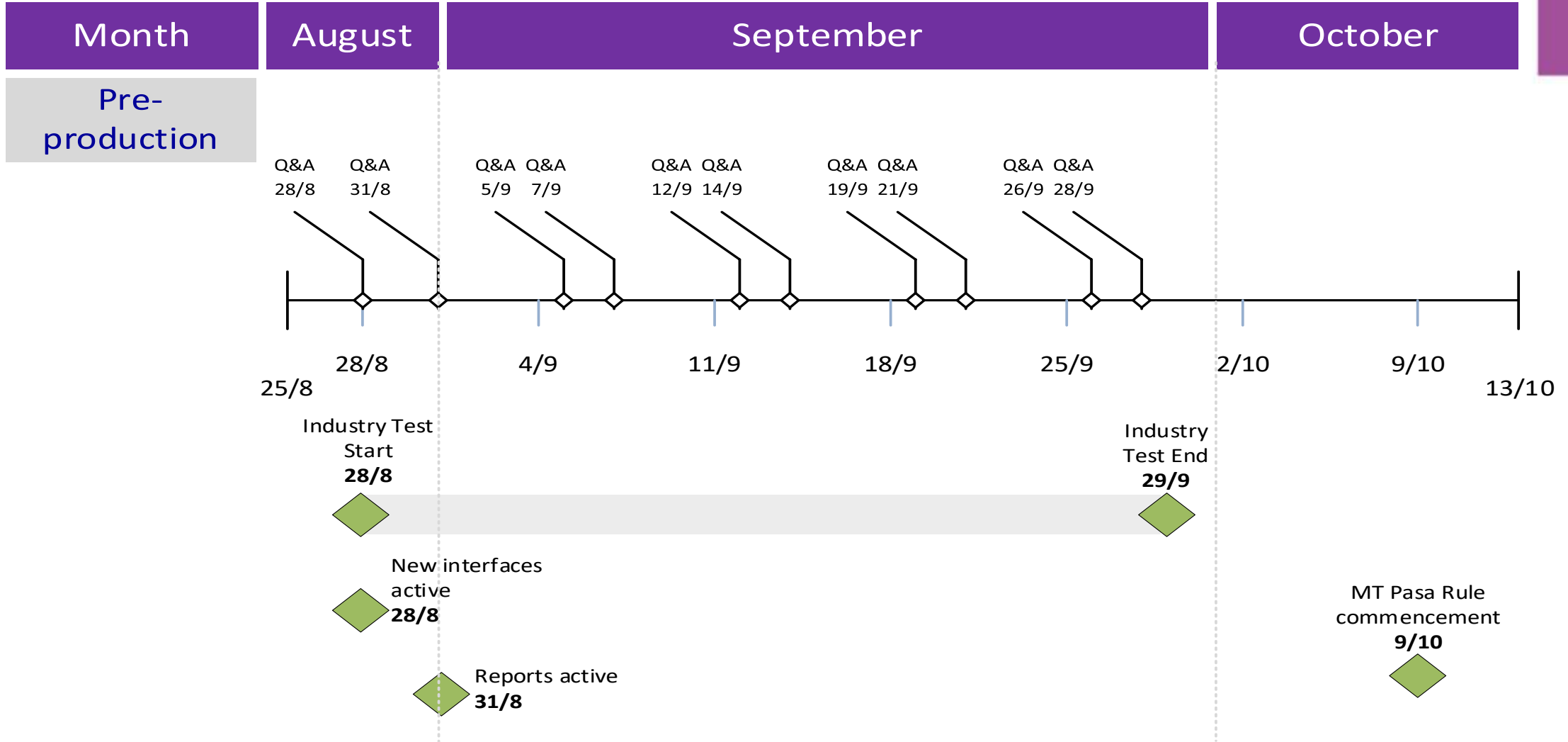
MT PASA Industry Testing

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

Date	Activity	Description
28 August	Industry Test Starts	<ul style="list-style-type: none"> • New interfaces active which mirrors 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 • MTPASA_DUID AVAILABILITY Report includes participant data for 'Unit State' and 'Recall Time' • Submitted Offers inclusive of 'Unit State' and 'Recall Time' available for consumption via Wholesale Data Interchange
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

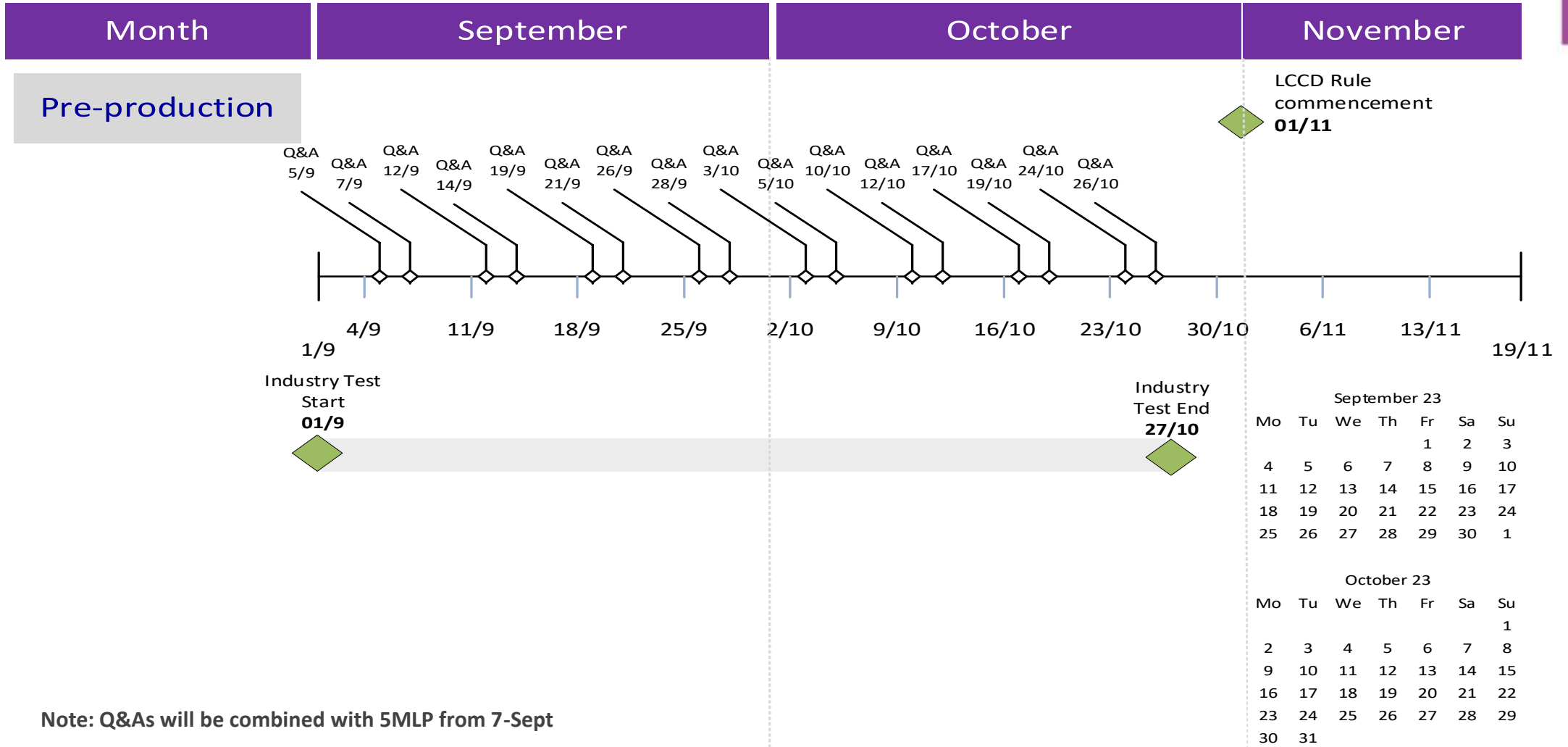


November Release

LCCD industry testing approach

WHO?	Interested Market Participants	
WHEN?	01 Sept to 27 Oct 2023	LCCD industry test period
WHAT?	Industry Testing <ul style="list-style-type: none"> • FRMPs to trigger CR1030/1040 & new CR5056/5057 to populate LCCD • FRMPs to attempt to progress CDR beyond LCCD 	
NEXT STEPS	<ul style="list-style-type: none"> • AEMO will hold twice-weekly Q&A sessions with participants to support industry testing and discuss any issues encountered. Sessions will coincide with the 5MLP Q&As. 	

LCCD Industry Test Timeline



Note: Q&As will be combined with 5MLP from 7-Sept

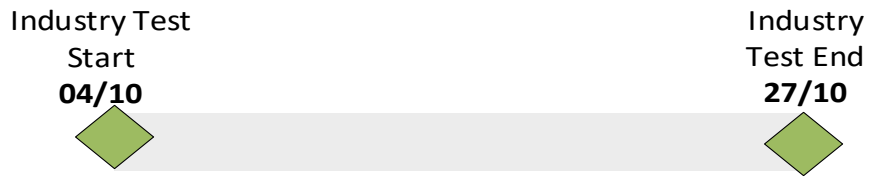
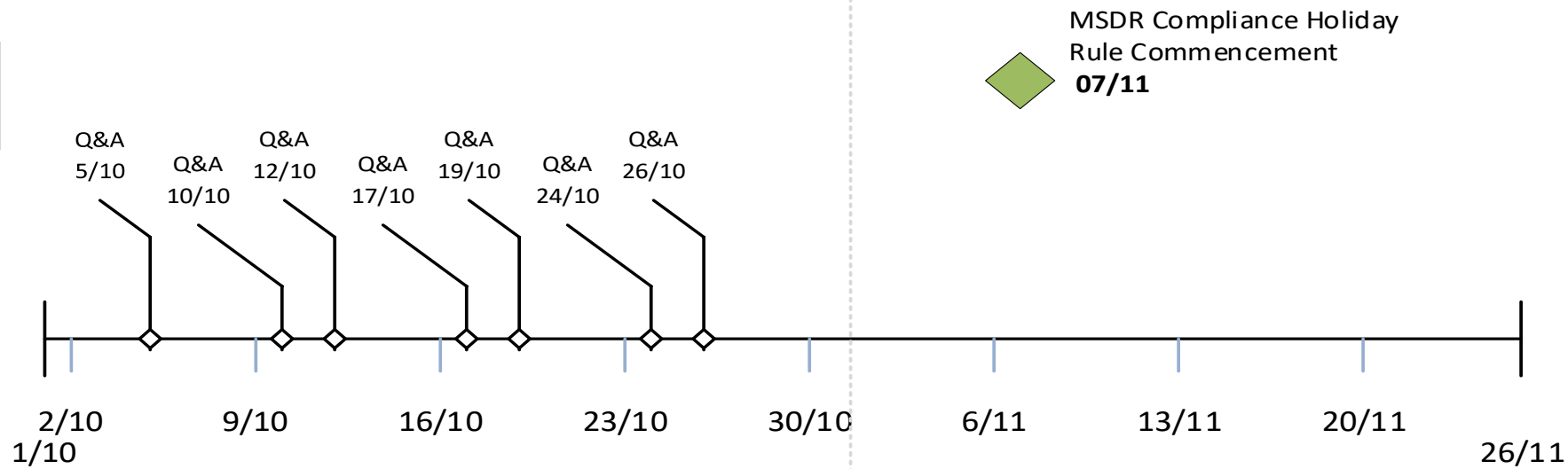
MSDR industry testing approach

WHO?	Interested Market Participants	
WHEN?	04 Oct to 27 Oct 2023	MSDR industry test period
WHAT?	<p>Industry Testing</p> <p>Participants can test and validate:</p> <ul style="list-style-type: none"> • ConnectionConfiguration for CR5000 series • Manufacturer, Model and Use for CR 3004/3005, 3050/3051, 3080/3081, 3090/3091 • UnstructuredAddress in NMI Discovery; CATS Report C1, C4, C7; and MSATS Snapshot Report 	
NEXT STEPS	<ul style="list-style-type: none"> • AEMO will hold twice-weekly Q&A sessions with participants to support industry testing and discuss any issues encountered. Sessions will coincide with the 5MLP Q&As. 	

MSDR Industry Test Timeline



Pre-production



October 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					

Note: Q&As will be combined with LCCD and Metering Exemptions.

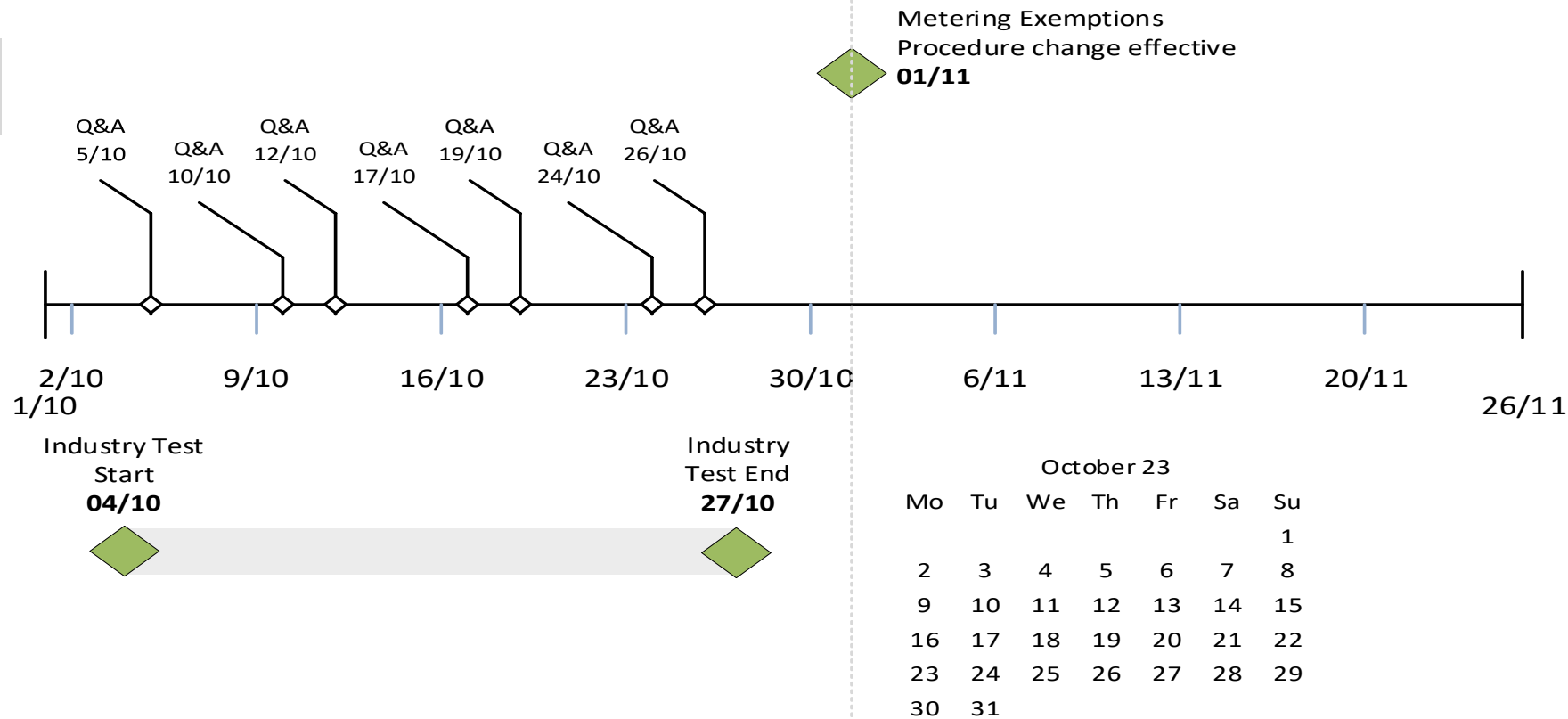
Metering Exemptions industry testing approach

WHO?	Interested Metering Coordinators and Market Participants	
WHEN?	04 Oct to 27 Oct 2023	Metering Exemptions industry test period – End date subject to Industry Consultation
WHAT?	<p>Industry Testing – Timing of Industry test components is subject to the decision on whether a new aseXML B2M Schema version is required.</p> <ul style="list-style-type: none"> 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) <p>Via API, Market Portal or MSATS Browser:</p> <ul style="list-style-type: none"> MCs to create Meter Exemption MCs to extend (duration) existing Meter Exemption MCs to cancel existing exemption Opportunity for MCs to review migrated exemptions Confirmation that COM received for 5100/5101 	
NEXT STEPS	<ul style="list-style-type: none"> AEMO will hold twice-weekly Q&A sessions with participants to support industry testing and discuss any issues encountered. Sessions will coincide with the 5MLP Q&As. 	

Metering Exemptions Industry Test Timeline



Pre-production



October 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					

Note: Q&As will be combined with LCCD and MSDR.

4. IESS June 2024

IESS June 2024: Indicative Market testing approach & scope

WHO?	Market testing for the June 2024 IESS changes is voluntary. Participants likely to be interested in market testing are: <ul style="list-style-type: none"> • FRMPs, generators, customers, IRPs, SGAs, MSRPs for IESS settlement changes • IRPs for BDU changes 	
WHEN?	April - May 2024	Industry testing / market trial

#	Proposed Scope – Test Activities
1	Settlement runs covering periods post Go-Live utilising new methodology including provision of relevant RM reports
2	Settlement runs covering periods prior to Go-Live utilising existing methodology including provision of relevant RM reports
3	Test standing data bulk update of classification code during cutover to new Integrated Resource Provider (IRP)
4	Test transition of BDU's from dual to single DUID (Dependent on participant requirement)
5	Test creation of new single BDU DUID (via Registration)
6	Test new BDU bidding processes are working correctly
7	Test ingest pre-dispatch and dispatch enhancements covering (DISPATCH, P5MIN, PREDISPATCH, TRADING_DATA, FORCE_MAJEURE packages) instructions for new BDU DUID's
8	Regression test bid, dispatch, and Wholesale Data Interchange functionality

Next Steps

- AEMO will publish draft test strategy based on proposed scope by 22/09.
- ITWG will provide feedback of the draft test strategy by 06/10.
- AEMO will publish final test strategy by 17/10.

5. Upcoming Engagements

Upcoming Engagements

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				

November						
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		

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	
Other Forums	
AEMO Consumer Forum	
Market Systems User Group (MSUG)	
Electricity Retail Consultative Forum	
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.

6. General Questions and Other Business



NEMReform@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