

# NEM Reform Implementation Forum

Meeting #16  
31 October 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	1:00–1:05pm	<b>Welcome</b>	Greg Minney
2	1:05–1:10pm	<b>Actions &amp; Feedback from Previous Meeting</b>	Greg Minney
3	1:10–1:20pm	<b>2023 / 2024 Release Summary</b>	Greg Minney
4	1:20–1:30pm	<b>October 2023 Release</b> <ul style="list-style-type: none"> <li>• FFR – go Live Summary- Market</li> <li>• Increased MT PASA Information – Go Live Summary</li> <li>• 5MLP (ICF060) Progress Summary <ul style="list-style-type: none"> <li>○ Go Live Summary</li> </ul> </li> </ul>	Greg Minney Greg Minney Chris Fleming
5	1:30–1:40pm	<b>November 2023 Release</b> <ul style="list-style-type: none"> <li>• November Release Progress summary (LCCD, MSDR Compliance Holiday and CDR)</li> <li>• Go Live Prep</li> </ul>	Chris Fleming
6	1:40–1:50pm	<b>March 2024 release</b> <ul style="list-style-type: none"> <li>• Metering Exemptions Delivery</li> <li>• Progress Update, milestones for delivery</li> <li>• Tech Upgrade – Notification</li> </ul>	Chris Fleming Chris Fleming Greg Minney

#	Time	Topic	Presenter
7	1:50–2:00pm	<b>June 2024 Release</b> <ul style="list-style-type: none"> <li>• Release update / milestone review</li> <li>• Readiness approach update</li> <li>• Go-Live criteria / reporting approach</li> <li>• Industry testing and market trial strategy - update</li> </ul>	Greg Minney Greg Minney Emily Brodie Emily Brodie
8	2:00-2:15pm	<b>September 2024 Release</b> <ul style="list-style-type: none"> <li>• Retail Improvements</li> </ul>	Greg Minney
9	2:15-2:30pm	<b>December 2024 Release / June 2025 FPP Release</b> <ul style="list-style-type: none"> <li>• Approach and Participant impact</li> </ul>	Greg / Oliver Derum
10	N/A	<b>Other Initiatives</b> <ul style="list-style-type: none"> <li>• IDAM,IDX &amp; Portal Consolidation (<b>For Noting</b>)</li> </ul>	Greg Minney
11	2:30-2:40pm	<b>Upcoming Engagements</b> <ul style="list-style-type: none"> <li>• ITWG Representation (Verbal Update)</li> </ul>	Greg Minney
12	2:40–3:00pm	<b>General Questions &amp; Other Business</b>	Greg Minney

**Appendix A:**  
Competition law meeting protocol and AEMO forum expectations

*“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

(Item = Meeting # – Agenda # – Reference)

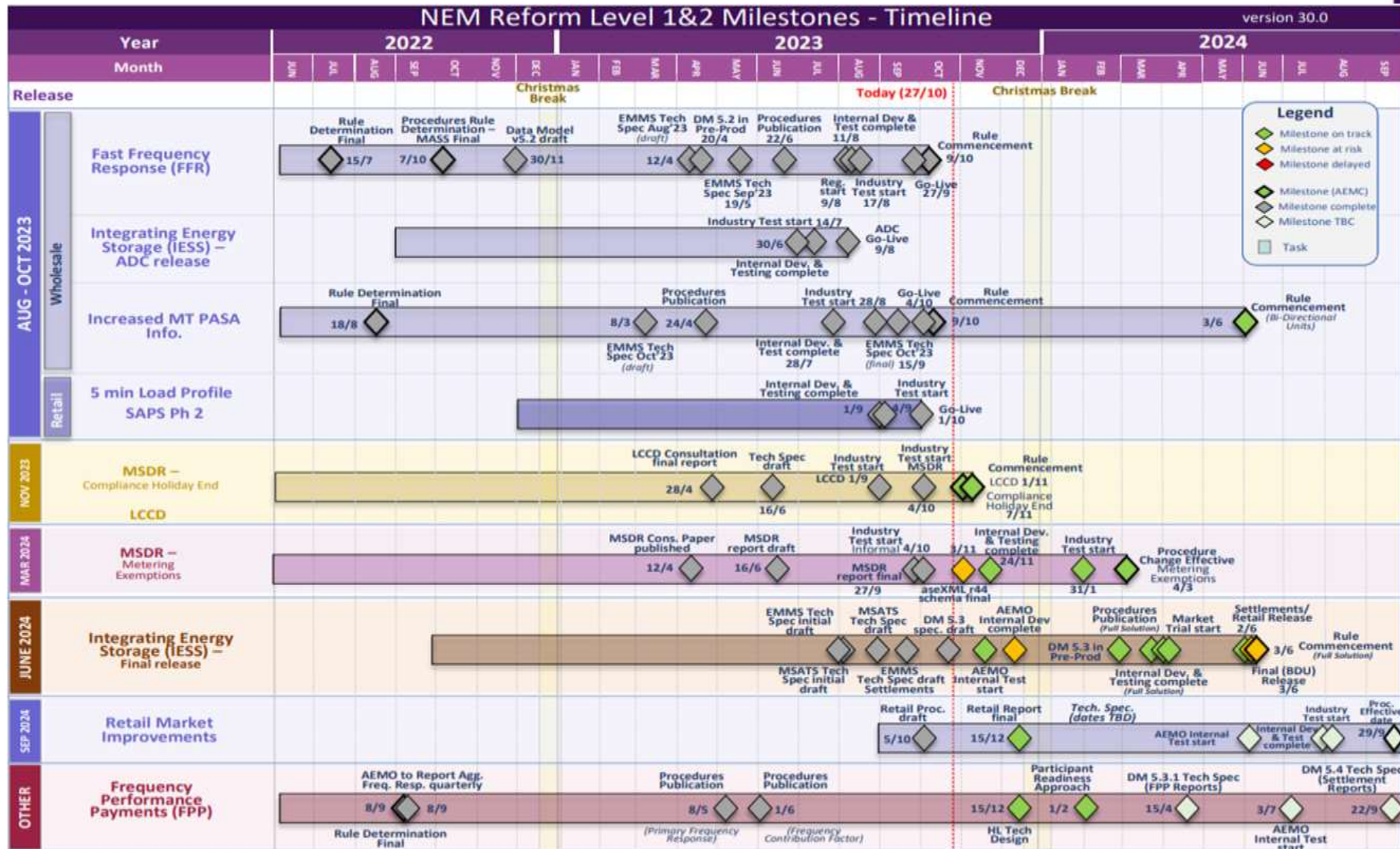
Item	Topic	Action	Responsible	Status
15.7.0.1	June 2024 Release – Go Live Criteria	<p>Participants to provide feedback on the proposed go live criteria approach by 13 October.</p> <ul style="list-style-type: none"> <li>To what extent are the proposed go-live criteria suitable for IESS?</li> <li>What other go-live criteria are needed and why?</li> <li>What are your views on the go-live criteria management approach?</li> <li>What other gaps do you see? How should these be approached?</li> </ul>	Participants	Closed
15.7.0.2	June 2024 Release – Market Trial Strategy	<p>Participants to provide feedback on the proposed IESS industry test and market trial strategy by 6 October.</p> <ul style="list-style-type: none"> <li>To what extent are the key test scenarios addressed?</li> <li>What other test scenarios are needed and why?</li> <li>What are your views on the test/trial implementation approach?</li> <li>What other gaps do you see? How should these be approached?</li> </ul>	Participants	Closed
13.5.0.1	November Release Progress Summary	AEMO to work through the data population and testing approach for metering exemptions.	AEMO	Closed

## IESS June 2024 Settlements Transition and Q&A session – 5 October

Topic	Action	Responsible	Status
Participant support	Consider approach to table changes walk through for business users of settlement.	AEMO	Closed. AEMO has explored with participants what support is needed and considering dedicated information session, timing TBC.

# 3. 2023 / 2024 Release Summary

# Release Summary milestones





# 4. October 2023 Release

# October release



Three major deployments included in this release:

1. Fast Frequency Response (**9 October**)
2. Increased MT PASA information (**4 October** and **9 October**)
3. 5MLP – Updates to 5 Minute Load Profile Calculation (**1 October**)

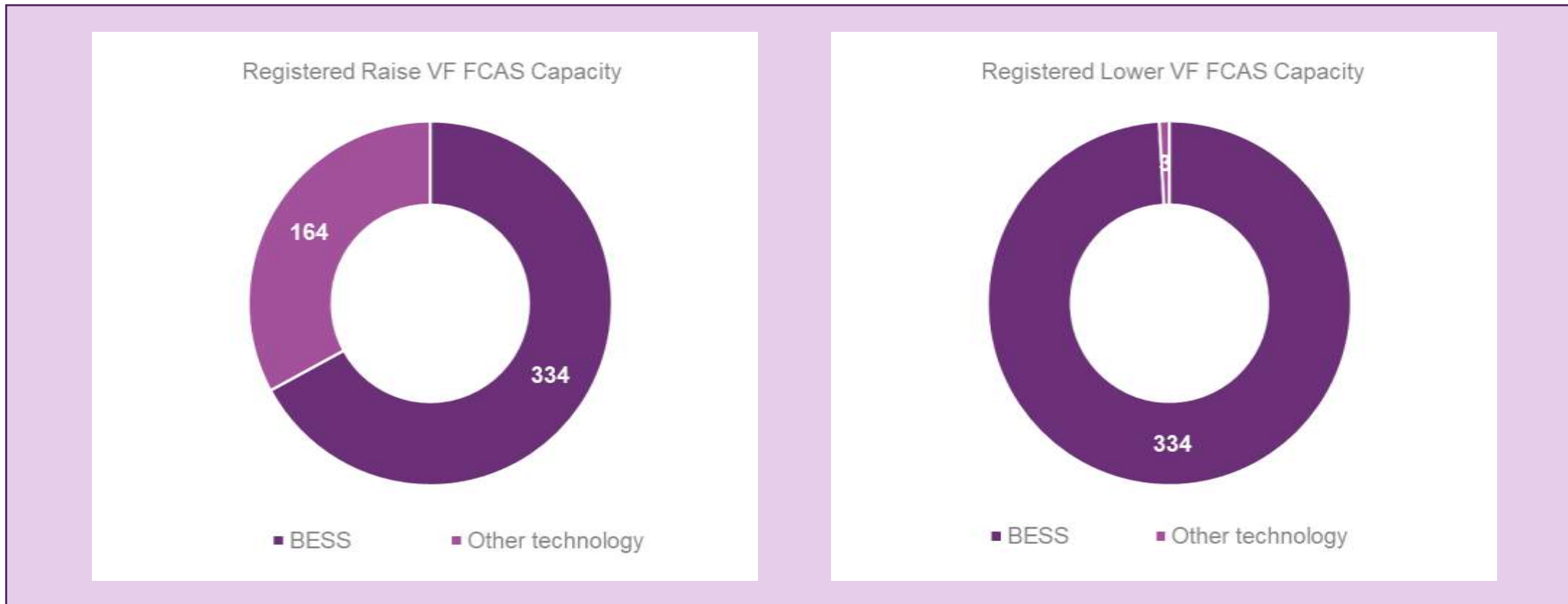


# October 2023 FFR Update

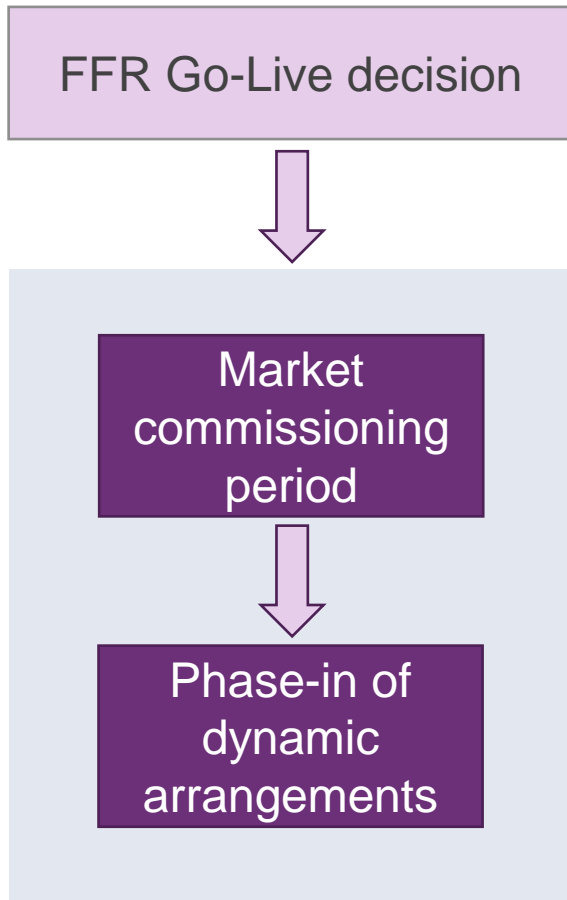
Greg Minney

# Market commencement

- The very fast raise and very fast lower markets commenced at 1300hrs market time (AEST)
- Registered capacity as at 10<sup>th</sup> October 2023 – 19 Facilities, 7 Participants:



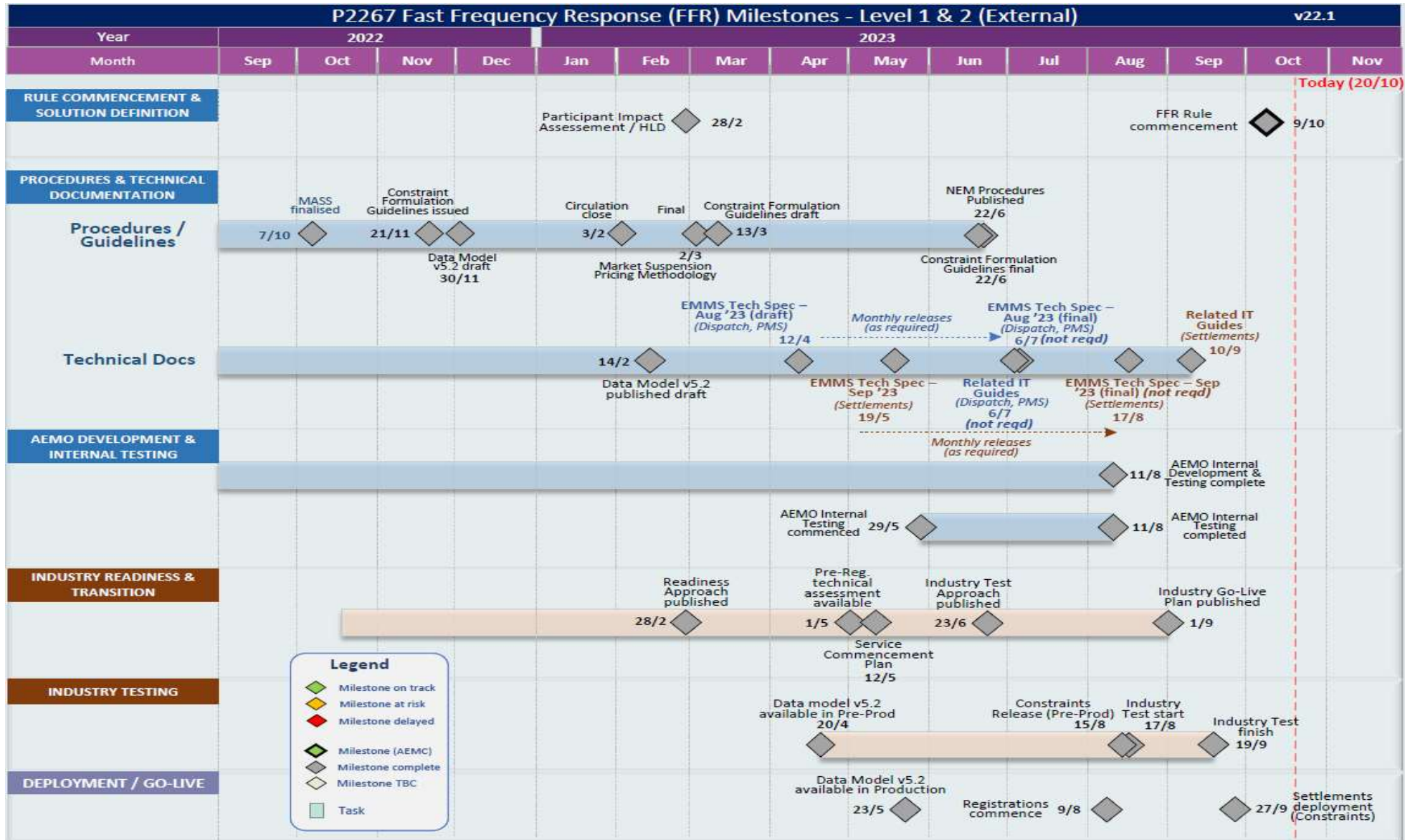
# FFR Market transition



- During the transition period, AEMO plans to progressively increase allowed requirement volumes while ensuring that sufficient capacity is registered and committed for VF FCAS market participation, with the objective of avoiding extended periods of supply shortage.
- The intention is to progressively increase VF FCAS requirements at regular, fortnightly intervals.
- The size of increments and length of transition period will be dependent on the level of registered capacity and participant commitment to participation in the VF FCAS services.
- Increments to the amounts required across groups of regions will be made separately, recognising that the volume of VF FCAS registered to support local versus global requirements may differ.

Participants will be notified of VF FCAS requirement increments via AEMO Market Notices.

# FFR Milestones and progress



# FFR External Milestones as at 3/10/2023



## FFR Project - Level 1 & 2 Milestones (External)

Level	Milestone ID	Milestone	Project	Target Date	Expected Date	RAG	Tentative / Confirmed	Comments
Level 1	FFR-101	Rule Determination Published - Draft (AEMC)	FFR	22-Jul-2022	22-Jul-2022		Confirmed	
Level 1	FFR-102	Rule Determination Published - Final (AEMC)	FFR	7-Oct-2022	7-Oct-2022		Confirmed	
Level 2	FFR-202	MASS finalised	FFR	7-Oct-2022	7-Oct-2022		Confirmed	
Level 2	FFR-203	Constraint Formulation Guidelines issued	FFR	21-Nov-2022	21-Nov-2022		Confirmed	
Level 2	FFR-204	Market Suspension Pricing Methodology - circulation close	FFR	3-Feb-2023	3-Feb-2023		Confirmed	
Level 2	FFR-209	Data Model v5.2 published - Draft	FFR	14-Feb-2023	14-Feb-2023		Confirmed	
Level 2	FFR-201	Participant Impact Assessment / HLD complete	FFR	28-Feb-2023	28-Feb-2023		Confirmed	
Level 2	FFR-216	Readiness Approach published	FFR	28-Feb-2023	28-Feb-2023		Confirmed	
Level 2	FFR-205	Market Suspension Pricing Methodology - Final	FFR	21-Feb-2023	2-Mar-2023		Confirmed	
Level 2	FFR-206	Constraint Formulation Guidelines - Draft	FFR	10-Mar-2023	13-Mar-2023		Confirmed	
Level 2	FFR-210.1	EMMS Technical Specification Aug. 2023 (draft) (Dispatch, PMS)	FFR	11-Apr-2023	12-Apr-2023		Confirmed	
Level 2	FFR-221	Data Model v5.2 available in Pre-Production	FFR	20-Apr-2023	20-Apr-2023		Confirmed	
Level 2	FFR-227	Pre-Registration Technical Assessment available	FFR	1-May-2023	1-May-2023		Confirmed	
Level 2	FFR-217	Service Commencement Plan complete	FFR	1-May-2023	12-May-2023		Confirmed	Initial release was on 6/4/23
Level 2	FFR-211.1	EMMS Technical Specification Sep. 2023 (initial) (Settlements)	FFR	19-May-2023	19-May-2023		Confirmed	
Level 2	FFR-214	AEMO Internal Testing commenced	FFR	22-May-2023	29-May-2023		Confirmed	
Level 2	FFR-224	Data Model v5.2 available in Production	FFR	23-May-2023	23-May-2023		Confirmed	
Level 2	FFR-218	Industry Test Approach published	FFR	23-Jun-2023	23-Jun-2023		Confirmed	
Level 2	FFR-207	Constraint Formulation Guidelines - Final	FFR	22-Jun-2023	22-Jun-2023		Confirmed	
Level 1	FFR-208	NEM Procedures Published	FFR	22-Jun-2023	22-Jun-2023		Confirmed	
Level 2	FFR-212	Related IT Guides available (Dispatch, PMS) (if required)	FFR	6-Jul-2023	N/R			Not required
Level 2	FFR-210.2	EMMS Technical Specification Aug. 2023 (final) (Dispatch, PMS) (if required)	FFR	6-Jul-2023	N/R			Not required
Level 3	FFR-219	Industry Test Plan available (not required)	FFR	31-Jul-2023	N/R			Not required. Covered in Industry Test approach
Level 1	FFR-103	AEMO Internal Development & Testing complete	FFR	25-Aug-2023	11-Aug-2023		Confirmed	
Level 2	FFR-215	AEMO Internal Testing completed	FFR	25-Aug-2023	11-Aug-2023		Confirmed	
Level 2	FFR-225	Registrations commence	FFR	9-Aug-2023	9-Aug-2023		Confirmed	
Level 2	FFR-222	Constraints Release (Pre-Prod)	FFR	15-Aug-2023	15-Aug-2023		Confirmed	
Level 2	FFR-211.2	EMMS Technical Specification Sep. 2023 (final) (Settlements) (not required)	FFR	17-Aug-2023	17-Aug-2023		Confirmed	
Level 1	FFR-104	Industry Test start	FFR	17-Aug-2023	17-Aug-2023		Confirmed	
Level 2	FFR-220	Industry Go-Live Plan published	FFR	1-Sep-2023	1-Sep-2023		Confirmed	
Level 2	FFR-213	Related IT Guides available (Settlements)	FFR	29-Sep-2023	10-Sep-2023		Confirmed	
Level 2	FFR-223	Industry Test finish	FFR	19-Sep-2023	19-Sep-2023		Confirmed	
Level 2	FFR-226	Settlements deployment	FFR	27-Sep-2023	27-Sep-2023		Confirmed	
Level 1	FFR-105	FFR Rule commencement	FFR	9-Oct-2023	9-Oct-2023		Confirmed	Subject to Market Readiness



# October 2023 MT PASA

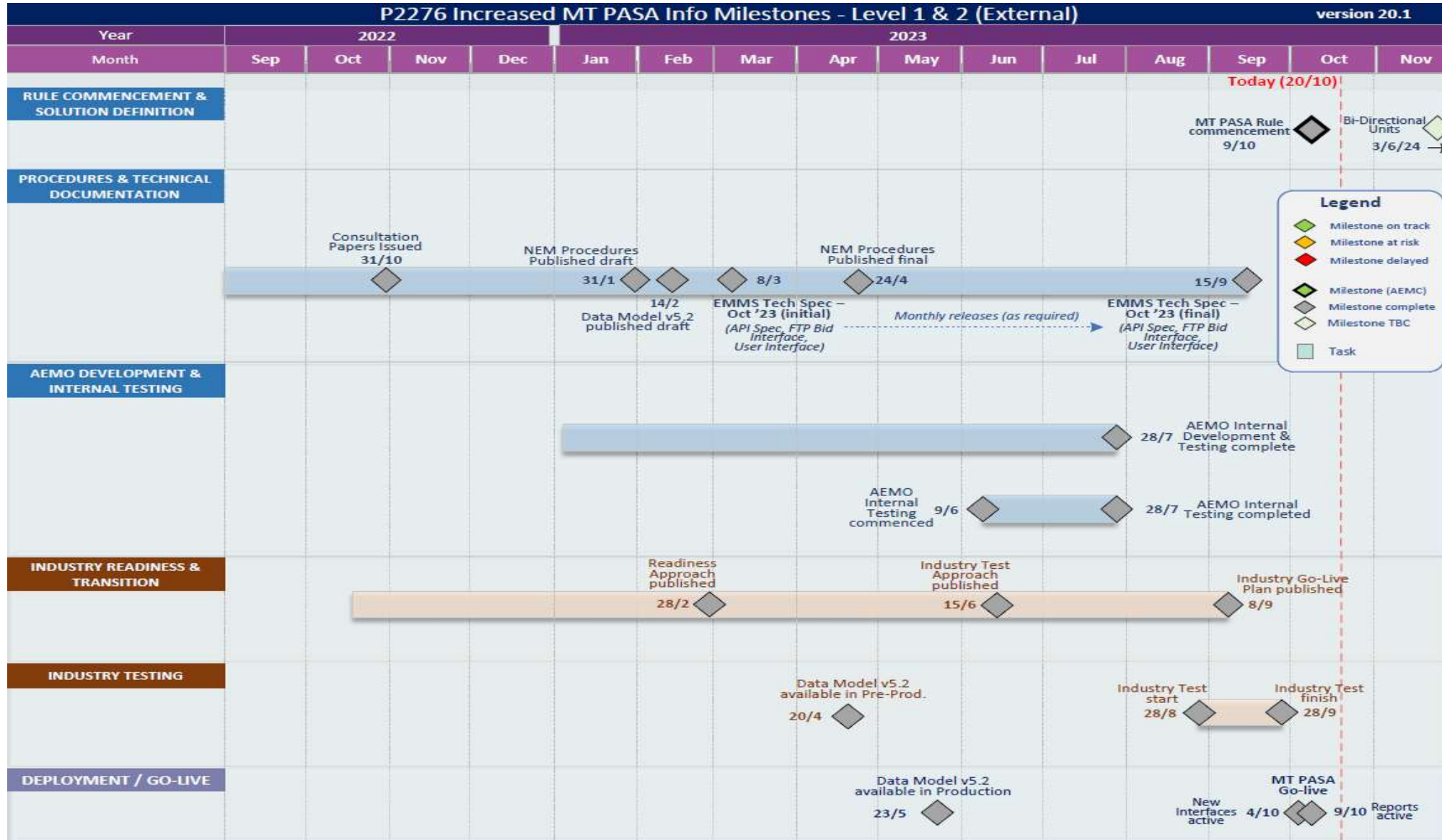
Greg Minney



# MT PASA Deployment Summary

- MT PASA Software Releases 4<sup>th</sup> (Supporting updated Offers) and 9th Oct (Reporting Activation )
  - Included capability to support API Offer submission
- Updated offers received for 188 of 189 DUIDs have submitted files successfully
  - New data submissions maintained by participants
- Project hypercare completed
  - No post production defects reported

# MT PASA Milestones and progress



# MT PASA External Milestones

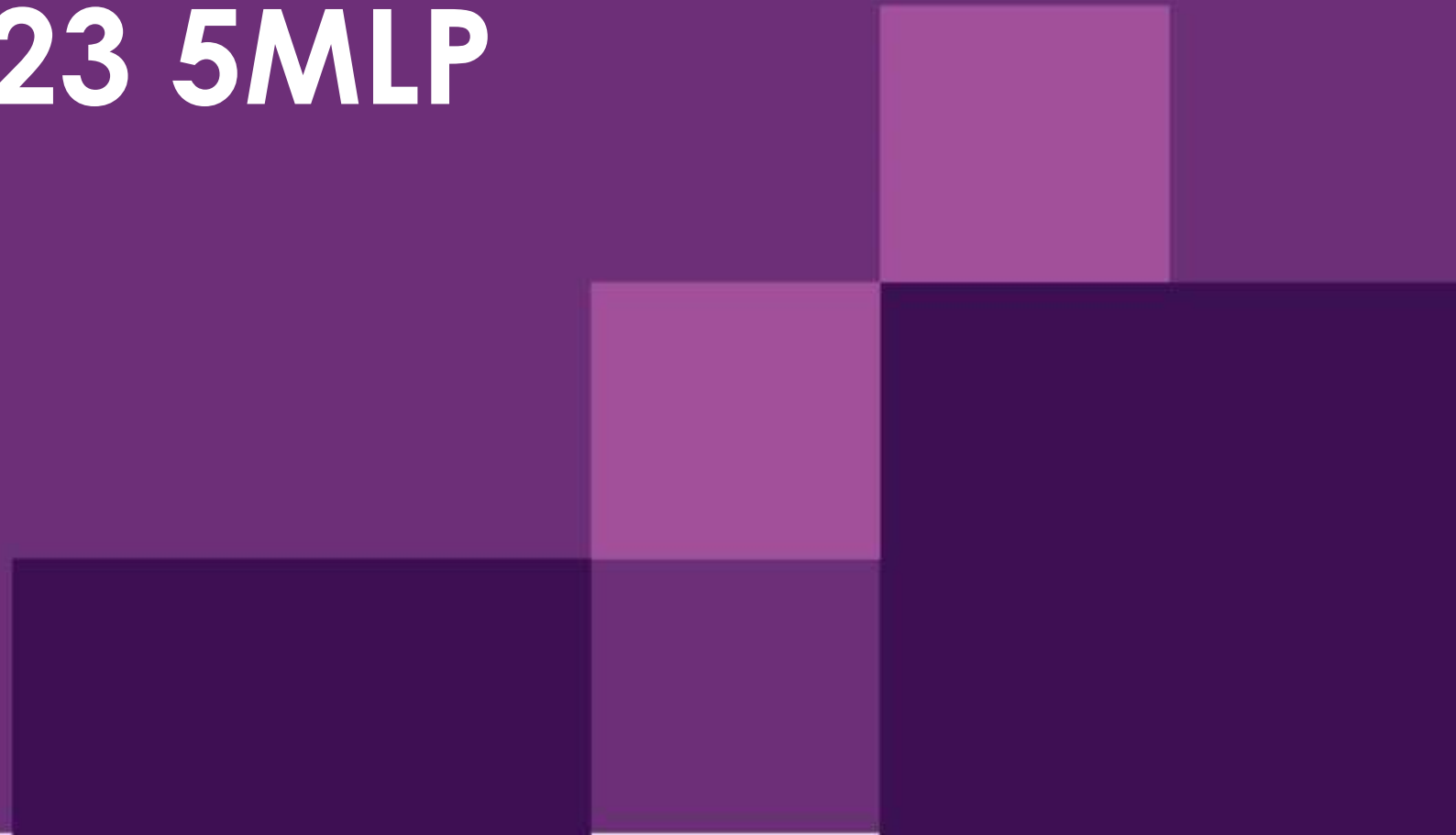
## MT PASA Project - Level 1 & 2 Milestones (External)

Level	Milestone ID	Milestone	Project	Target Date	Expected Date	RAG	Tentative / Confirmed	Comments
Level 1	MTP-101	Rule Determination Published - Draft	MTP	31-May-2022	31-May-2022		Confirmed	
Level 1	MTP-102	Rule Determination Published - Final	MTP	19-Aug-2022	19-Aug-2022		Confirmed	
Level 2	MTP-201	Consultation Papers issued	MTP	31-Oct-2022	31-Oct-2022		Confirmed	
Level 1	MTP-103	NEM Procedures Published - Draft	MTP	31-Jan-2023	31-Jan-2023		Confirmed	
Level 2	MTP-202	Data Model v5.2 Published - Draft	MTP	14-Feb-2023	14-Feb-2023		Confirmed	
Level 2	MTP-208	Readiness Approach Published	MTP	28-Feb-2023	28-Feb-2023		Confirmed	
Level 2	MTP-203	EMMS Technical Specification Oct 2023 (initial) (API Spec, FTP Bid Interface, User Interface)	MTP	30-Apr-2023	8-Apr-2023		Confirmed	
Level 2	MTP-211	Data Model available in Pre-Production	MTP	20-Apr-2023	20-Apr-2023		Confirmed	
Level 1	MTP-104	NEM Procedures Published - Final	MTP	30-Apr-2023	24-Apr-2023		Confirmed	
Level 2	MTP-213	Data Model available in Production	MTP	23-May-2023	23-May-2023		Confirmed	
Level 2	MTP-209	Industry Test Approach published	MTP	31-May-2023	15-Jun-2023		Confirmed	
Level 2	MTP-206	AEMO Internal Testing commenced	MTP	12-Jun-2023	12-Jun-2023		Confirmed	
Level 1	MTP-105	AEMO Internal Development & Testing complete	MTP	28-Jul-2023	28-Jul-2023		Confirmed	
Level 2	MTP-207	AEMO Internal Testing completed	MTP	28-Jul-2023	28-Jul-2023		Confirmed	
Level 1	MTP-106	Industry Test start	MTP	31-Jul-2023	28-Aug-2023		Confirmed	
Level 2	MTP-210	Industry Go-Live Plan Published	MTP	8-Sep-2023	8-Sep-2023		Confirmed	
Level 2	MTP-204	EMMS Technical Specification Oct 2023 (final) (API Spec, FTP Bid Interface, User Interface)	MTP	18-Aug-2023	15-Sep-2023		Confirmed	Monthly releases planned as required
Level 2	MTP-212	Industry Test finish	MTP	28-Sep-2023	28-Sep-2023		Confirmed	
Level 2	MTP-214	MT PASA Go-Live (new interfaces active)	MTP	4-Oct-2023	4-Oct-2023		Confirmed	
Level 2	MTP-215	MT PASA Go-Live (Reports Active)	MTP	9-Oct-2023	9-Oct-2023		Confirmed	
Level 1	MTP-107	MT PASA Rule Commencement	MTP	9-Oct-2023	9-Oct-2023		Confirmed	



# October 2023 5MLP

Chris Fleming



# Milestone Review: 5MLP

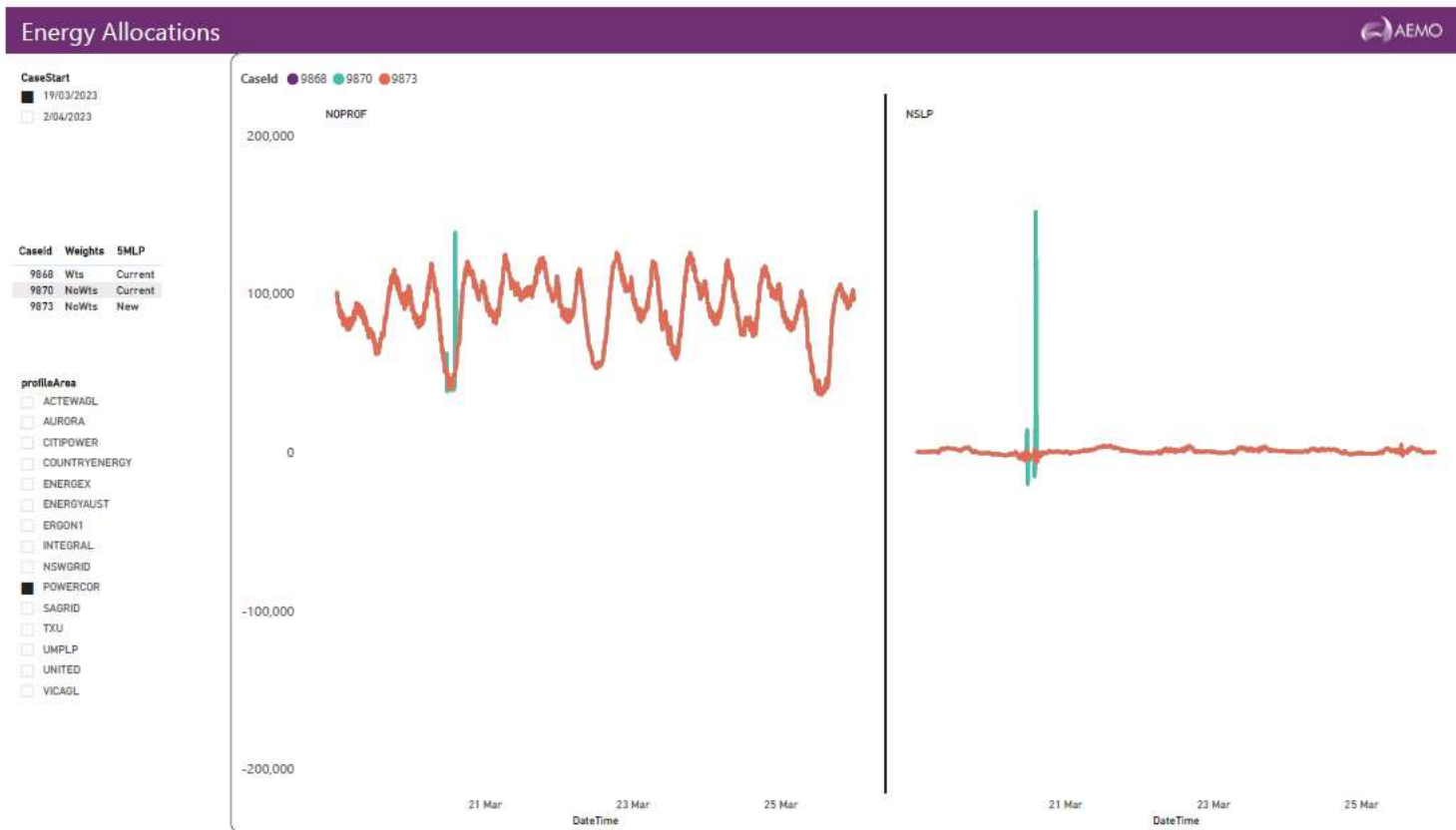


- **1 Oct 2023:** Successful production deployment, adjusted Five Minute Load Profile (5MLP) formula implemented
  - Contingency not needed
- Today is final IF update on 5MLP as it is now in BAU
  - Hypercare period of 4 weeks (to end Oct 2023)
- The Five-Minute Load Profiles (5MLP) create a profile shape, which is used to convert 30-minute and 15-minute interval metering data into 5-minute trading intervals.
- Metrology Procedure updated in relation to how positive and negative five-minute profile values are applied to 15-minute and 30-minute metering data for a profile area and to remove the “weights” applied to certain profile areas. No change to the 5MLP Calculation.
- Where negative 5MLP values exist for a profile area and case Id, the new methodology aims to mitigate the risks associated with the very high or very low profiled 5-minute values (“spikes”) resulting from the application of the current profiling method.



# Examples provided during Industry test

The change in methodology will directly impact profiling of 15-minute and 30-minute metering data, where negative 5MLP values exist. The profiled 15-minute and 30-minute metering data has a downstream impact on the NSLP and therefore has an impact on the profiling of basic metering data to remove spikes.



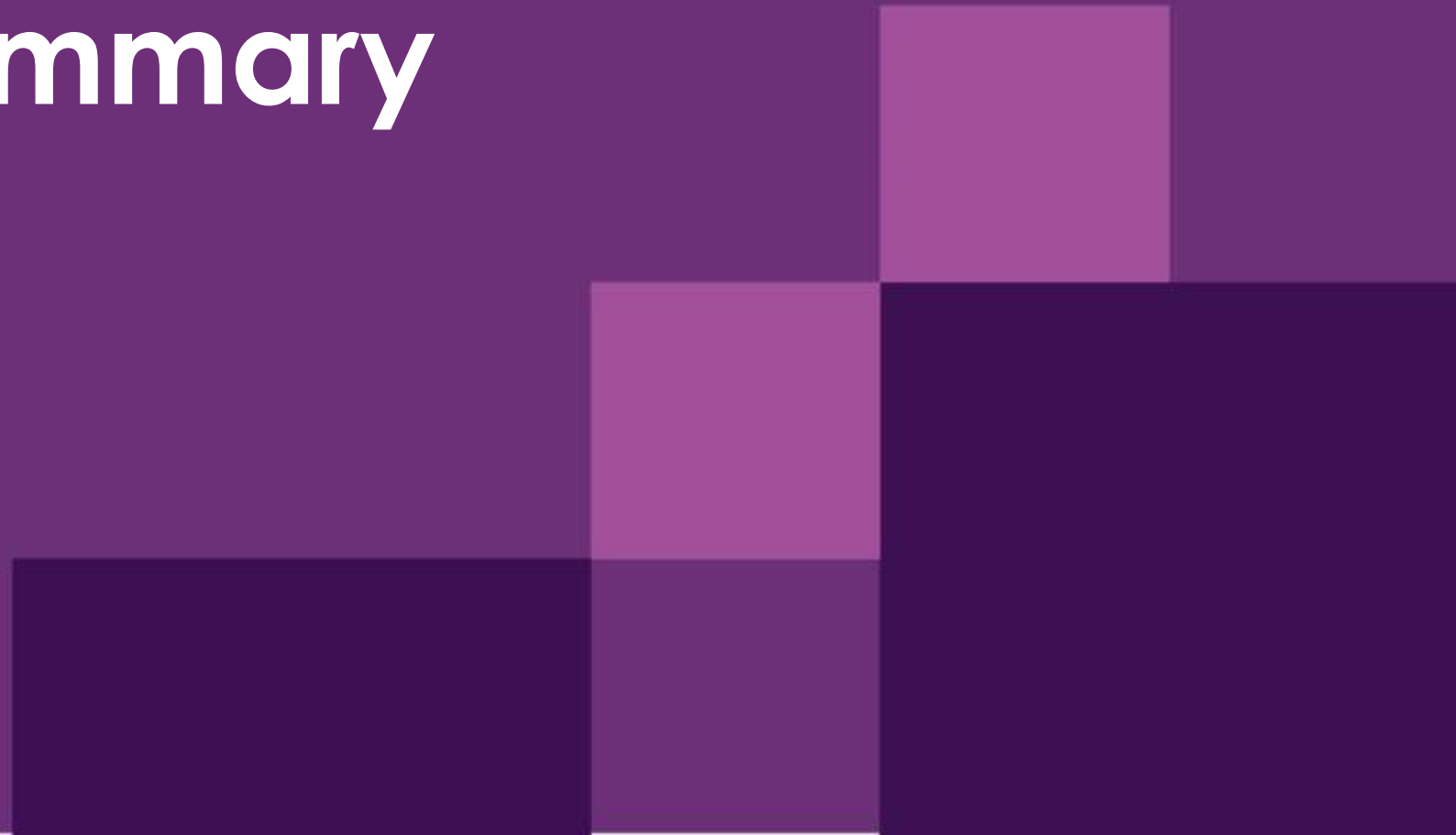
Comparison of aggregated interval and basic meter energy for Week 12 for POWERCOR

# 5. November 2023 Release



# November Release Progress Summary

Chris Fleming







# 6. March 2024 Release

# Metering Exemptions Automation

- AEMO development on the r44 B2M Schema nearing completion.
- aseXML r44 B2M changes have not been finalised. Next ASWG 27/10. Summary of schema changes can be found in [the Draft Technical Specification for March 2024](#)
- r44 B2M schema changes to be deployed into Pre-prod 5/12 (earlier than initially scheduled).
- Industry Test will run in 2 phases; informal and formal.
- Informal Testing
  - Commenced on 04/10/23 and will continue thru to the end of January 2024.
  - Twice weekly Q&A sessions will run to 9/11
  - Will give participants an opportunity to shakedown their application changes and new business processes supporting the Metering Exemption automation.
- Formal Testing
  - Will run from 29/01/24 to 1/03/24
  - Testing will not be structured but MCs are encouraged to ensure that they can manage their Metering Exemption processes via the new UI or by the new APIs.
  - Participants can confirm receipt CR5101 notifications.
  - AEMO will support the formal testing by advancing the statuses of exemptions on request.
  - Q&A sessions will resume in late January
- A selection of production metering exemption data has been loaded into preprod for each MC. Additional data, based on existing production exemptions, can be loaded on request by email to [nemreform@aemo.com.au](mailto:nemreform@aemo.com.au)
- Draft Go-live plan for March 2024 due on 08/01/2024, final version due 06/02/2024.
- Production effective date for Metering Exemptions 4/03/24.



# Metering Exemption – Milestone Table

## March 2024 - Level 1 & 2 Milestones (External)

Level	Milestone ID	Milestone	Release	Target Date	Expected Date	RAG	Tentative / Confirmed	Commentary
Level 2	MSD-206	aseXML r44 Schema Specification published draft	March 2024	19-Sep-2023	19-Sep-2023		Confirmed	
Level 1	MSD-101	Industry Test start (Informal)	March 2024	4-Oct-2023	4-Oct-2023		Confirmed	
Level 2	MSD-208	AEMO Development complete (incl. aseXML r44 schema)	March 2024	13-Oct-2023	24-Oct-2023	Green	Confirmed	
Level 2	MSD-210	AEMO Testing start (aseXML r44 Schema)	March 2024	16-Oct-2023	25-Oct-2023	Green	Confirmed	
Level 2	MSD-211	aseXML r44 Schema Specification published final	March 2024	23-Oct-2023	3-Nov-2023	Amber	Tentative	Awaiting ASWG Approval, rescheduled
Level 1	MSD-104	AEMO Development & Testing complete (incl. aseXML r44 Schema)	March 2024	15-Nov-2023	24-Nov-2023	Green	Confirmed	
Level 2	MSD-212	Pre-Production Release - aseXML r44 Schema	March 2024	22-Nov-2023	5-Dec-2023	Green	Confirmed	
Level 1	MSD-105	Industry Test start (Formal)	March 2024	31-Jan-2024	31-Jan-2024	Green	Confirmed	
Level 2	MSD-213	Industry Go-Live Plan published (Metering Exemptions)	March 2024	5-Feb-2024	5-Feb-2024	Green	Confirmed	
Level 1	MSD-106	MSDR Metering Exemptions Go-live	March 2024	3-Mar-2024	3-Mar-2024	Green	Confirmed	
Level 1	MSD-107	Metering Exemptions Procedure Change Effective	March 2024	4-Mar-2024	4-Mar-2024	Green	Confirmed	

# 7. June 2024 Release



# Integrating Energy Storage Systems into the NEM

Greg Minney / Emily Brodie

# IESS June 2024 updates



	1. Release update
	2. IESS readiness approach
	3. IESS June 2024 readiness & go-live criteria
	4. IESS Industry testing & market trial strategy



# 1. Release update

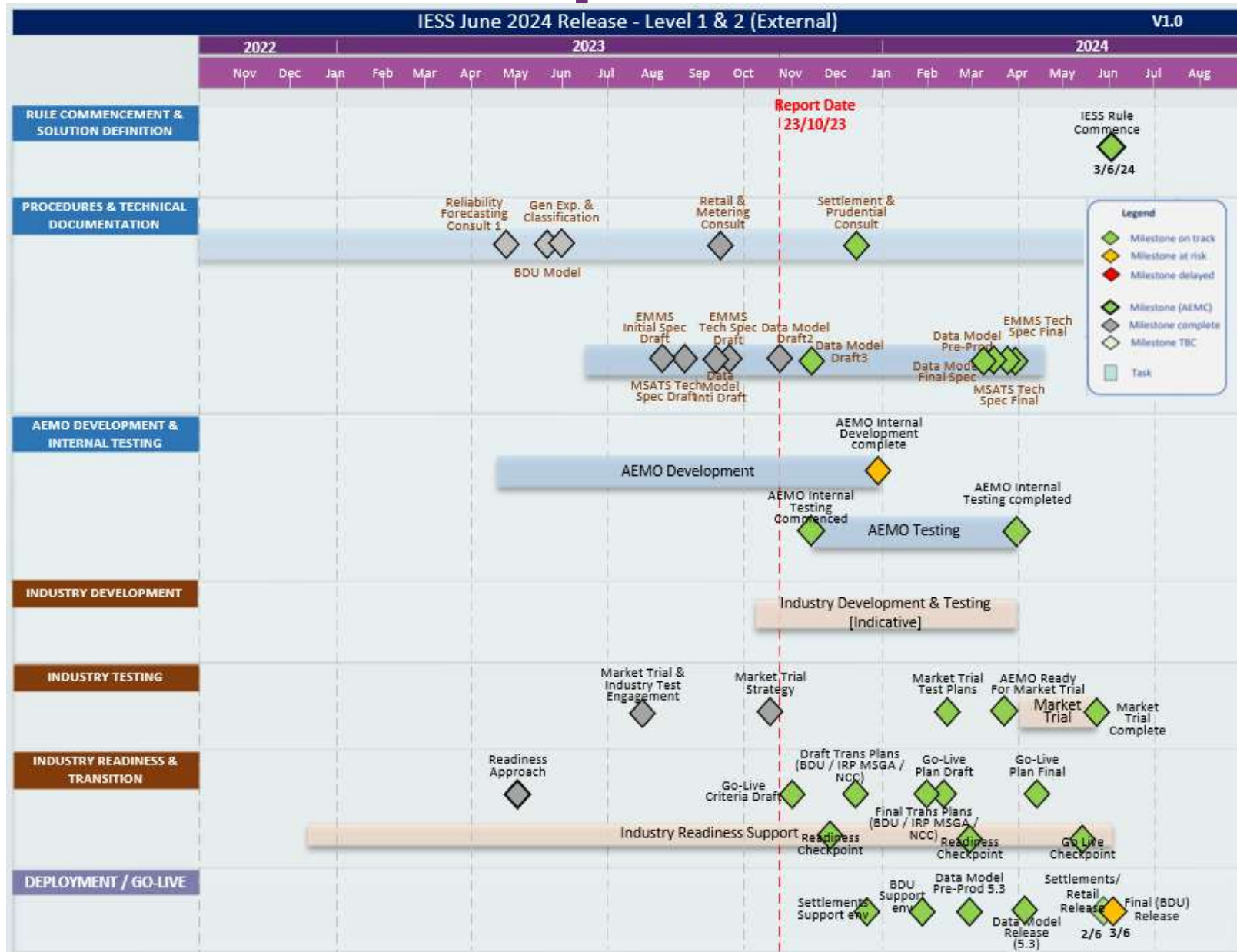


IESS is a large, complex project. To provide additional support, particularly in addressing emerging issues, AEMO's reform ownership and business lead responsibilities are now shared:

<b>ROLE</b>	<b>IESS RETAIL &amp; SETTLEMENT 02 Jun 2024</b>	<b>IESS IRP &amp; BDU 02/03 Jun 2024</b>
<b>Reform owner</b>	Chris Muffett	Luke Barlow
<b>Business lead</b>	Emily Brodie	Carla Ziser

Please continue to route all IESS enquiries to the dedicated/monitored mailbox:  
[iess@aemo.com.au](mailto:iess@aemo.com.au)

# 1. Release update



## RELEASE

- Project schedule is now baselined to meet the June 2024 IESS rule commencement dates.
- Overall project status **AMBER** owing to overlapping and compressed development and test phases.
- AEMO Development remains AMBER, with good progress being made on interim milestones. AEMO Integration Testing on track for 20 November commencement
- [Procedures consultation](#) in progress via EWCF/ ERCF\* and on track.
- [Draft EMMS tech spec](#) and draft [EMMS tech spec Data Model v5.3](#) published.
- [IESS Industry test and market trial strategy](#) published.
- IESS Go Live Criteria – finalised.

\*Electricity wholesale / retail consultative forums

# IESS – June Milestone Table



Level	Milestone ID	Milestone	Target Date	Expected Date	RAG	Tentative / Confirmed	Comments
Level 1		AEMC Final Determination Published (Integrating energy storage systems into the NEM)	2-Dec-2021	2-Dec-2021	Complete		
Level 2		IESS High level Design final	7-Jul-2022	7-Jul-2022	Complete		
	IES-210	Reliability Forecasting Consultation 1	28-Apr-2023	28-Apr-2023	Complete		
Level 1		BDU Model Finalised	31-May-2023	31-May-2023	Complete		
Level 2	IES-211	Guide to Gen. Exp. & Classification - Final documents published	1-Jun-2023	1-Jun-2023	Complete		
		MSATS Technical Specification draft available	7-Aug-2023	23-Aug-2023	Complete		
Level 2		EMMS Data Model 5.3 specification - Initial Draft	11-Sep-2023	11-Sep-2023	Complete		
		EMMS June 24 Technical Specification (Draft)	18-Sep-2023	18-Sep-2023	Complete		
	IES-213	Retail Metering Procedures Final Published	18-Sep-2023	18-Sep-2023	Complete		
		Industry Test and Market Trials Strategy Draft published	22-Sep-2023	22-Sep-2023	Complete		
		EMMS Data Model 5.3 specification - Draft 2	9-Oct-2023	23-Oct-2023	Complete		Complete this period
		Industry Test and Market Trials Strategy complete	17-Oct-2023	17-Oct-2023	Complete		Complete this period
Level 2		Go-Live Criteria draft/establish	30-Oct-2023		Green	Confirmed	
Level 2		EMMS Data Model 5.3 specification - Draft 3	13-Nov-2023	20-Nov-2023	Green	Confirmed	Revised date
		AEMO Internal Testing commenced	20-Nov-2023		Green	Confirmed	
		Draft Data Model 5.3 scripts published	22-Nov-2023		Green	Confirmed	To support participant development activities. Not to be published in pre-prod or prod environments.
		Transition Plan Draft (BDU / IRP MSGA / NCC)	15-Dec-2023		Green	Confirmed	
		Settlements Participant Support Environment available	15-Dec-2023		Green	Confirmed	
	IES-217	AEMO Internal Development complete	22-Dec-2023		Amber	Confirmed	Development and system test schedule pressure. Mitigations being developed to maintain critical path
		BDU Participant Development Support Environment available	22-Jan-2024		Green	Confirmed	
		Settlements & Prudentials Procedures published	29-Jan-2024	18-Dec-2023	Green	Confirmed	Revised date (earlier)
		Transition Plan Final (BDU / IRP MSGA / NCC)	31-Jan-2024		Green	Confirmed	
		Market Trial Test Plan complete	16-Feb-2024		Green	Confirmed	
		Industry Go-Live Plan Draft published	26-Feb-2024		Green	Confirmed	
	IES-218	EMMS Data Model 5.3 Released to Pre-Production	27-Feb-2024		Green	Confirmed	
Level 1		Initiative Readiness Checkpoint	1-Mar-2024		Green	Confirmed	
Level 1		EMMS Data Model 5.3 final specification available	12-Mar-2024		Green	Confirmed	
Level 2	IES-219	EMMS Data Model 5.3 Released to Production	27-Mar-2024		Green	Confirmed	
Level 2	IES-107	AEMO Internal Development & Testing complete	28-Mar-2024		Green	Confirmed	
		AEMO Ready for Market Trial	2-Apr-2024		Green	Confirmed	
Level 1		MSATS Technical Specification final available	2-Apr-2024		Green	Confirmed	
		EMMS Settlement Technical Specification final	2-Apr-2024		Green	Confirmed	
	IES-108	Market Trial start	2-Apr-2024		Green	Confirmed	
Level 1	IES-214	Reliability Forecasting Consultation finalised	12-Apr-2024		Green	Confirmed	
Level 2		Settlement Certification complete	19-Apr-2024		Green	Confirmed	
Level 2		Industry Go-Live Plan Final published	19-Apr-2024		Green	Confirmed	
		Go-Live Checkpoint	1-May-2024		Green	Confirmed	
		Market Trial complete	24-May-2024		Green	Confirmed	
	IES-220	IESS Settlements Go-Live	2-Jun-2024		Green	Confirmed	
Level 2		Rule Commencement Date - Settlements [NECR]	2-Jun-2024		Green	Confirmed	
Level 2	IES-221	IESS BDU Go-Live	3-Jun-2024		Amber	Confirmed	Overall Schedule is tight for BDU end to end delivery
	IES-109	IESS Final Release [BDU] - Rule Commencement	3-Jun-2024		Green	Confirmed	

# 1. Release updates - workstreams

**\*\*To be read in conjunction with the IESS release schedule\*\***



## IESS SETTLEMENTS



## IRP & BDU

### SINCE LAST MEETING

Thu 05 Oct	<a href="#">Settlements information session</a> * Session recording available <a href="#">here</a>	
Thu 12 Oct		<ul style="list-style-type: none"> <li>• <a href="#">BDU focus group meeting #1</a></li> <li>• BDU transition survey released, due Thu 26 Oct</li> </ul>
Tue 17 Oct	<a href="#">IESS Industry testing and market trial strategy</a> published	
Thu 20 Oct	Updated <a href="#">IESS participant impact assessment</a> published	
Mon 23 Oct	<a href="#">EMMS technical specification - Data model v5.3 – March 2024</a> *New version published, including updates to DM tables based on feedback from MSUG	
Various dates	1to1 discussions	

### BEFORE NEXT MEETING

Late Oct	<a href="#">FAQs to website</a>	
Late Oct	Fact sheet on Participant development support environment	
TBC Tue 14 Nov		IRP information session: <ul style="list-style-type: none"> <li>• Approach to IRP registration processes</li> <li>• Market fee policy for IRPs</li> </ul>
TBC late Nov		BDU focus group meeting #2
TBC	Emerging retailer IESS information session	
Various dates	1to1 discussions	
Tue 28 Nov	Implementation forum #16	

AEMO is currently receiving large numbers of IESS enquiries, often along the same themes.

We will soon publish material to address these questions, so that all participants can access the information.



# 1. Release update



## REMINDER

Refer to the IESS participant toolbox for key project information

Integrating Energy Storage Systems Participant Toolbox

31 March 2023 release  
Market Smeat Generator Aggregators (MSGAs) providing F-CAS


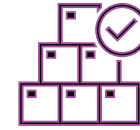
9 August 2023 release  
Aggregate systems can opt-in to aggregated dispatch performance (ADC)

2 June 2024 release  
IESS Retail and settlement changes: Material changes to the non-energy cost recovery framework (NECR) leading to significant changes to NEM settlement table structures

3 June 2024 release  
IESS registration, classification and bidding changes: Introduction of Integrated Resource Provider (IRP) participant type and bi-directional units (BDU)

Reference information

# 2. IESS readiness approach



DATE	ACTIVITY
Feb 2023	Presented proposed IESS readiness approach to Implementation Forum
Feb to Jul 2023	Sought and received feedback on IESS Settlements and IESS IRP/BDU implementation. Key themes: <ul style="list-style-type: none"><li>• Earlier release of technical material</li><li>• Provision of participant support environments, both Settlements and BDU</li><li>• Provision of longer and more flexible transition period for BDUs</li><li>• Appropriately timed market trial</li><li>• Supporting workshops/information sessions</li></ul>
Sep 2023	<ul style="list-style-type: none"><li>• IESS readiness approach updated to reflect feedback</li><li>• Project deliverables updated to include support requirements</li></ul>
Oct 23 to Apr 24	<ul style="list-style-type: none"><li>• <a href="#">Updated Readiness approach</a> published on web site Mon 09 Oct</li><li>• Development of transition, test and deployment plans (see milestones)</li></ul>

*Please note that feedback on readiness approach continues to be welcomed anytime and will be actively sought in the development of readiness plans.*



# 3. IESS June release: Feedback on proposed readiness & go-live criteria

Key feedback received (1 participant)	AEMO response
<ul style="list-style-type: none"> <li>Noted that participants may have constraints that make it challenging to meet AEMO's timelines</li> </ul>	<ul style="list-style-type: none"> <li>Timelines in this case are driven by the NER.</li> <li>Acknowledge that NEM Reform timelines are challenging for most parties whether driven by the NER, AEMO or via industry collaboration.</li> <li><b>Propose no changes to the draft readiness &amp; go-live criteria</b>, which are in summary:               <ul style="list-style-type: none"> <li>AEMO's business processes and IT solution need to be ready</li> <li>Individual participant readiness is not a reason for delaying</li> <li>Systemic issues that materially affect NEM operational integrity will be considered</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>Go-live readiness should be:               <ul style="list-style-type: none"> <li>Closely managed as part of broader industry readiness planning</li> <li>Captured on AEMO's risk register</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Agree.</li> <li>IESS readiness &amp; go-live criteria are a key component of the overarching <a href="#">IESS readiness approach</a>. Readiness approach also considers contingency planning, which will be developed in the coming months ahead of IESS commencement.</li> </ul>
<ul style="list-style-type: none"> <li>Criteria management approach and proposed check point dates seem reasonable</li> </ul>	<ul style="list-style-type: none"> <li>In the absence of other feedback, <b>will proceed with criteria management approach</b></li> </ul>

*Final readiness & go-live criteria are attached in App. B*

# 3. IESS June release: Next steps for readiness & go-live criteria



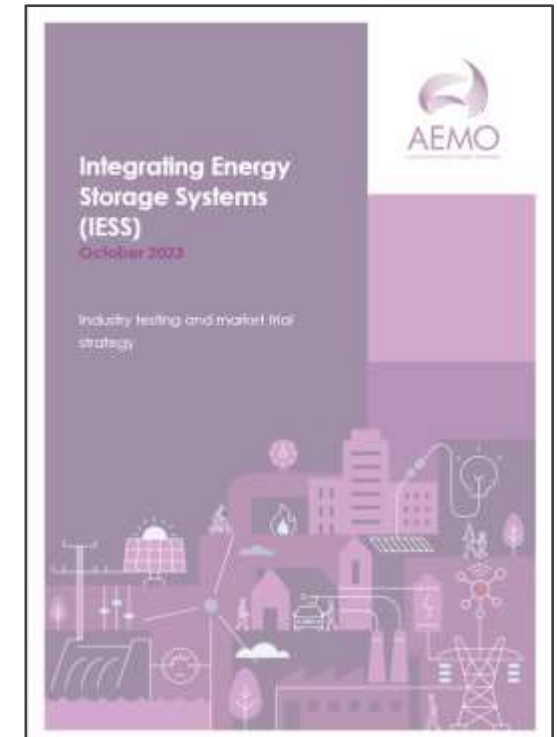
DATE	ACTIVITY
Sep 2023	Discussion at Implementation Forum on: <ul style="list-style-type: none"><li>• Proposed readiness &amp; go-live criteria</li><li>• Proposed go-live criteria management</li><li>• Sought feedback by Fri 13 Oct</li></ul>
Oct 23 to Apr 24	<ul style="list-style-type: none"><li>• Feedback received</li><li>• Readiness &amp; go-live criteria finalised</li><li>• Readiness &amp; go-live criteria to be published on web site</li><li>• AEMO to:<ul style="list-style-type: none"><li>• Monitor progress against go-live criteria, highlight key issues and mitigations / contingencies</li><li>• Include industry go-live checkpoints in schedule as milestones</li><li>• Reporting against criteria at checkpoints (first checkpoint Nov 23)</li></ul></li><li>• Development of deployment plans (see milestones)</li></ul>



# 4. IESS Industry testing & market trial update



KEY DATES	ACTIONS
Tue 25 Jul (IF)	Called for feedback on scope of IESS market trial at Implementation Forum
Fri 18 Aug	No substantive feedback received
Tue 29 Aug (IF)	AEMO assumed that proposed scope is broadly correct and, based on this, will produce a <b>draft IESS market trial strategy</b> for feedback.
Fri 22 Sep	AEMO releases draft IESS market trial strategy for industry feedback
Tue 26 Sep (IF)	Discussion on draft IESS market trial strategy at Implementation Forum
Thu 28 Sep (ITWG)	Discussion on draft IESS market trial strategy at Industry Test Working Group
Fri 06 Oct	Participants to provide feedback
Tue 17 Oct	AEMO publishes final <a href="#">IESS market trial strategy</a> that considers participant feedback
Nov 23 – Feb 24	Detailed market trial/industry test plans will developed conjunction with ITWG



# 4. Industry testing & market trial update

AEMO thanks the 3 participants who provided comprehensive feedback to the draft IESS industry testing and market trial strategy

## KEY THEMES

- Consistency of language
- Need for clarifying:
  - AEMO's participant support responsibilities
  - Test planning approach
  - BESS registration status for market trial\*
- Detailed test planning items\*
- Need for PDSE information\*
- Testing support outside of market trial\*

## UPDATES FOR FINAL STRATEGY

- Grammar and language corrections
- Clarifications:
  - Assumptions - AEMO's responsibilities
  - Test planning – one plan covering all test phases
  - Language – particularly around environments

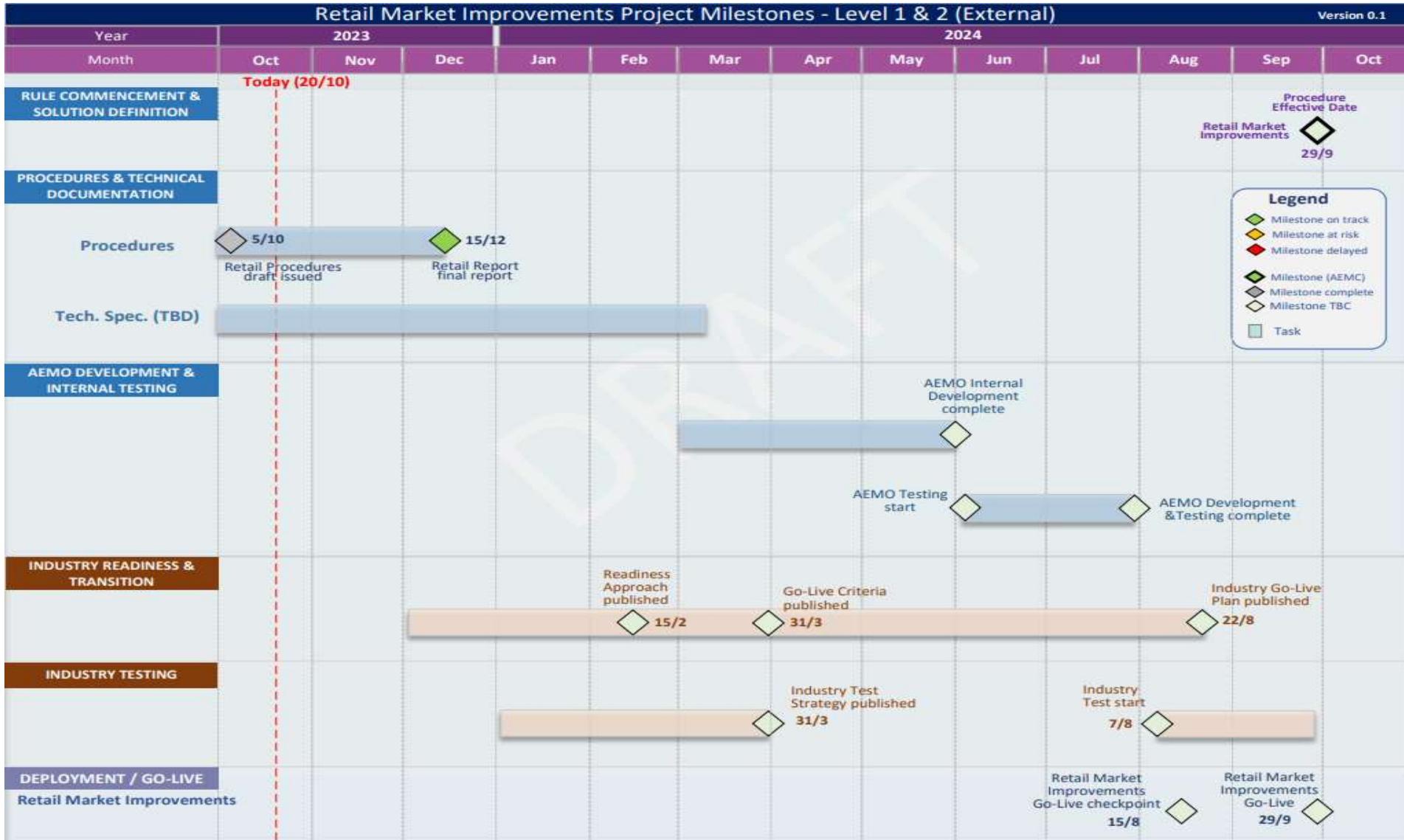
\*These items are more appropriately addressed in test plans (via ITWG) and/or fact sheets. See slides 35 & 36 for timing.

# 8. September 2024 Release

# September 2024 Release - Context

- As part of the in progress 'July 2023 Retail Electricity Market Procedures Consultation', the following changes are being proposed:
  - A preferred longer-term Net System Load Profile (NSLP) Methodology (ICF\_072)
    - Considers situations where positive and negative NSLP trading interval values are present.
  - Substitution Types review (ICF\_054)
    - Intends to provide recipients a clearer understanding of the reason and method used to support a substituted metering data value
- These consulted on changes are being proposed to come into effective from 29 September 2024
- Submissions are due to the Draft Report by Friday 3 November 2023
- Final Report is current scheduled to be published by Friday 15 December 2023

# September Release Timeline



- Retail Improvements Release scheduled 29<sup>th</sup> September
- Indicative milestones provided to assist Participant planning
  - Tech Spec milestones to be provided
- Milestones to be formalised on confirmation of effective date

# September – Retail Improvements – Draft milestones

## September 2024 - Level 1 & 2 Milestones (External)

Level	Milestone ID	Milestone	Target Date	Expected Date	Status	RAG	Tentative / Confirmed	Commentary
Level 2		Retail Procedures draft issued	5-Oct-2023		Complete		Confirmed	
Level 2		Retail Report final report	15-Dec-2023			Green	Confirmed	
Level 2		Readiness Approach published	15-Feb-2024			Green	Tentative	
Level 2		Go-Live Criteria published	31-Mar-2024			Green	Tentative	
Level 2		Industry Test Strategy published	31-Mar-2024			Green	Tentative	
Level 2		AEMO Internal Development complete	31-May-2024			Green	Tentative	
Level 2		AEMO Internal Testing start	3-Jun-2024			Green	Tentative	
Level 2		AEMO Development & Testing complete	31-Jul-2024			Green	Tentative	
Level 1		Industry Test start	7-Aug-2024			Green	Tentative	
Level 2		Retail Market Improvements Go-Live checkpoint	15-Aug-2024			Green	Tentative	
Level 2		Industry Go-Live Plan published	22-Aug-2024			Green	Tentative	
Level 1		Retail Market Improvements Go-Live	29-Sep-2024			Green	Tentative	
Level 1		Retail Market Improvements Procedure Effective Date	29-Sep-2024			Green	Tentative	

# 9. December 2024

**FPP Non-Financial Operation & June 2025 Financial Operation**

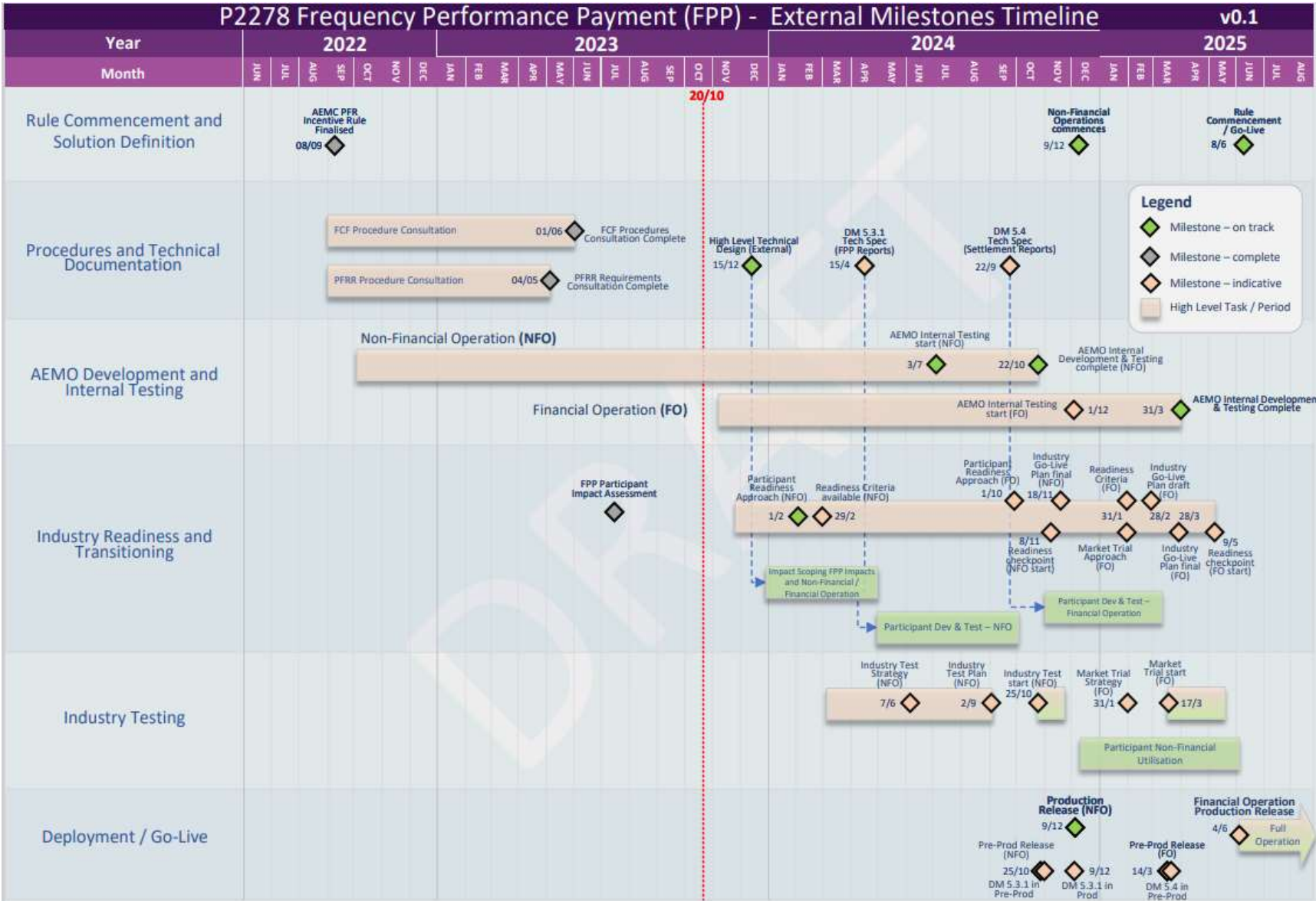
# FPP Implementation Approach

- FPP initiative will be delivered in two stages:
  - Rule commencement and settlement changes to be delivered for 8 June 2025
  - This will be preceded by a six-month period of “non-financial operation”, commencing 9 December 2024
- Non-financial operation is intended to provide participants with the opportunity to see what their FPP outcomes would be, based on actual performance and in real time\*, before the new arrangements take effect
  - During this period AEMO provides specified reporting for participant consumption
- Project implementation schedule reflects the delivery of both stages of the initiative

\*FPP penalties and payments are calculated for each five-minute trading interval. Participants will be provided with the outcome and all input data as soon as the calculation is complete. AEMO does not yet know how many minutes this process will take.



# FPP Milestones Timeline



## RELEASE COMMENTARY

- Overall project status **GREEN**
- AEMO Development in Progress
- Proposed milestones extended to include readiness deliverables in support of Non-financial and financial operation
- Participant impact assessment provided in [this presentation](#) based on industry Workshops
- High level technical design available 15 Dec 2023.
  - Deliverable to support participant scoping of their own system development needs
- Readiness Approach for non-financial operations including participant test support requirements to be provided 1 Feb 2024.

# FPP - Milestone Table

Milestone ID	Milestone	Project	Target Date	Expected Date	RAG	Tentative / Confirmed	Commentary
FPP-101	Rule Determination Published - Final	FPP	8-Sep-2022	8-Sep-2022		Confirmed	
FPP-201	AEMC PFR Incentive Rule Finalised	FPP	8-Sep-2022	8-Sep-2022		Confirmed	
FPP-202	CFP Initial Paper Published	FPP	31-Oct-2022	31-Oct-2022		Confirmed	
FPP-203	CFP First Stage Submissions received	FPP	6-Dec-2022	6-Dec-2022		Confirmed	
FPP-204	PFRR Initial Paper Published	FPP	6-Dec-2022	6-Dec-2022		Confirmed	
FPP-205	PFRR First Stage Submissions received	FPP	16-Jan-2023	16-Jan-2023		Confirmed	
FPP-206	CFP Draft Determination Published	FPP	7-Feb-2023	7-Feb-2023		Confirmed	
FPP-207	PFRR Draft Determination Published	FPP	20-Feb-2023	20-Feb-2023		Confirmed	
FPP-208	CFP Second Stage Submissions received	FPP	15-Mar-2023	15-Mar-2023		Confirmed	
FPP-209	PFRR Second Stage Submissions received	FPP	21-Mar-2023	21-Mar-2023		Confirmed	
FPP-210	PFRR Requirements Consultation complete	FPP	8-May-2023	4-May-2023		Confirmed	
FPP-211	CF Procedures Consultation complete	FPP	8-Jun-2023	1-Jun-2023		Confirmed	
FPP-102	NEM Procedures Published	FPP	8-Jun-2023	1-Jun-2023		Confirmed	
FPP-221	High Level Technical Design (External)	FPP	8-Dec-2023	15-Dec-2023	Green	Confirmed	
FPP-222	Participant Readiness Approach (incl. Dev Support Reqmts) published	FPP	1-Feb-2024		Green	Confirmed	
FPP-230	Readiness Criteria available (NFO)	FPP	29-Feb-2024		Green	Tentative	
FPP-217	Data Model 5.3.1 Tech Spec (FPP Reports)	FPP	15-Apr-2024		Green	Tentative	
FPP-227	Industry Test Strategy (NFO) published	FPP	7-Jun-2024		Green	Tentative	
FPP-212	AEMO Internal Testing commenced (NFO)	FPP	3-Jul-2024		Green	Confirmed	
FPP-229	Industry Test Plan published (NFO)	FPP	2-Sep-2024		Green	Tentative	
FPP-218	Data Model 5.4 Tech Spec (Settlement Reports)	FPP	22-Sep-2024		Green	Tentative	
FPP-214	Participant Readiness Approach complete (Financial Operation)	FPP	1-Oct-2024		Green	Tentative	
FPP-231	Industry Development finish (NFO)	FPP	1-Oct-2024		Green	Tentative	
FPP-232	Readiness Checkpoint - Industry Test start (NFO)	FPP	15-Oct-2024		Green	Tentative	
FPP-103	AEMO Internal Development & Testing complete (NFO)	FPP	22-Oct-2024		Green	Tentative	
FPP-225	Pre-Production Release (NFO)	FPP	25-Oct-2024		Green	Tentative	
FPP-233	Data Model 5.3.1 available in Pre-Prod	FPP	25-Oct-2024		Green	Tentative	
FPP-104	Industry Test start (NFO)	FPP	25-Oct-2024		Green	Tentative	
FPP-234	Industry Go-Live Plan published - draft (NFO)	FPP	4-Nov-2024		Green	Tentative	
FPP-236	Readiness Checkpoint - Go-Live (NFO)	FPP	8-Nov-2024		Green	Tentative	
FPP-235	Industry Go-Live Plan published - final (NFO)	FPP	18-Nov-2024		Green	Tentative	
FPP-215	Industry Test finish (NFO)	FPP	22-Nov-2024		Green	Tentative	
FPP-237	AEMO Internal Testing commenced (FO)	FPP	28-Nov-2024		Green	Tentative	
FPP-238	Data Model 5.3.1 available in Prod	FPP	9-Dec-2024		Green	Tentative	
FPP-246	Production Release (NFO)	FPP	28-Nov-2024		Green	Confirmed	
FPP-105	Non-Financial Operations commences	FPP	9-Dec-2024		Green	Confirmed	
FPP-223	Market Trial Strategy published (Financial Operation)	FPP	31-Jan-2025		Green	Tentative	
FPP-224	Readiness Criteria available (Financial Operation)	FPP	31-Jan-2025		Green	Tentative	
FPP-239	Industry Go-Live Plan published - draft (Financial Operation)	FPP	28-Feb-2025		Green	Tentative	
FPP-240	Readiness Checkpoint - Market Trial start (Financial Operation)	FPP	28-Feb-2025		Green	Tentative	
FPP-241	Industry Development Finish (Financial Operation)	FPP	15-Mar-2025		Green	Tentative	
FPP-242	Data Model 5.4 available in Pre-Prod	FPP	15-Mar-2025		Green	Tentative	
FPP-226	Pre-Production Release (Financial Operation)	FPP	14-Mar-2025		Green	Tentative	
FPP-108	Market Trial start (Financial Operation)	FPP	17-March-2025		Green	Tentative	
FPP-243	Industry Go-Live Plan published - final (Financial Operation)	FPP	28-March-2025		Green	Tentative	
FPP-107	AEMO Internal Development & Testing complete (Financial Operation)	FPP	31-Mar-2025		Green	Confirmed	
FPP-244	Readiness Checkpoint - Financial Operation	FPP	9-May-2025		Green	Tentative	
FPP-245	Market Trial finish (Financial Operation)	FPP	20-May-2025		Green	Tentative	
FPP-109	Production Release (Financial Operation)	FPP	4-Jun-2025		Green	Tentative	
FPP-106	FPP Project Go-Live / Rule Commencement	FPP	8-Jun-2025		Green	Confirmed	

# 10. Other initiatives

# Strategic / Foundational Initiatives

Identity & Access Management  
Industry Data Exchange  
Portal Consolidation

For noting

# Industry Consultation Update

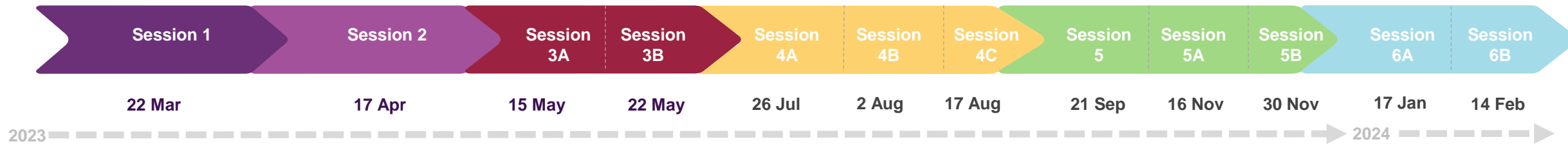
## Preparation of business case continues.

- AEMO thanks participants for their contributions to the industry costing exercise. Six detailed industry cost estimates and four high level estimates received (as of 16 October).
- November industry workshops scheduled, allowing additional time and focus on cost and approach for AEMO and industry, reflecting the high level of interest in the topic.

## Published information and materials:

- Focus Group webpage: <https://aemo.com.au/en/consultations/industry-forums-and-working-groups/list-of-industry-forums-and-working-groups/nem-reform-foundational-and-strategic-initiatives-focus-group>
- Any queries can be directed to [NEMReform@aemo.com.au](mailto:NEMReform@aemo.com.au)

Timing is indicative. Additional engagement with Executive forum members depending on extent of consensus.



Session	Introduction	Discovery	Target State	Transition Strategy	Cost & Method	Business Case
Agenda	<ul style="list-style-type: none"> <li>• Introduce initiatives</li> <li>• Outline workshop plan</li> </ul>	<ul style="list-style-type: none"> <li>• Pain points and benefits</li> <li>• Survey</li> </ul>	<ul style="list-style-type: none"> <li>• Concept walkthrough</li> <li>• Survey</li> </ul>	<ul style="list-style-type: none"> <li>• Transition Strategy</li> <li>• Impacts &amp; Benefits</li> <li>• Survey</li> </ul>	<ul style="list-style-type: none"> <li>• Industry and AEMO costs</li> <li>• Assumptions, options and methodology</li> </ul>	<ul style="list-style-type: none"> <li>• Walkthrough of draft business case</li> <li>• Assessment and completion</li> </ul>

# 11. Upcoming Engagements

# Upcoming engagements

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		

December						
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 - Collaborative Workshop	
NEM Reform Implementation Forum	
NEM Reform Electricity Wholesale Consultative Forum	
NEM Reform Industry Testing Working Group	
Other Forums	
Electricity Retail Consultative Forum	
Other	
State/Territory Public Holiday	
AEMO Office Closed	

# Industry Testing Working Group Representation

Verbal Update

Greg Minney



# 9. General Questions & Other Business



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



[AEMO | Implementation Forum](#)



# 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: IESS Final readiness & go-live criteria

# IESS June 2024: Readiness & go-live criteria



INITIATIVE	IESS Sun 02 Jun 2024	IESS Mon 03 Jun 2024
GO-LIVE CRITERIA		
AEMO	<ul style="list-style-type: none"> <li>• <b>AEMO solution</b> tested in-line with requirements for:                             <ul style="list-style-type: none"> <li>– NEM operation incorporating new NECR framework from rule commencement date</li> <li>– Providing for new IRP registration category</li> </ul> </li> <li>• <b>AEMO business:</b> <ul style="list-style-type: none"> <li>– Ready to operate new NECR framework</li> <li>– Ready to register IRPs</li> <li>– Has re-registered SGAs as IRPs</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>AEMO solution</b> tested in-line with requirements for enabling scheduled batteries to participate as a single DUID in energy and FCAS markets</li> <li>• <b>AEMO business</b> ready to support BDU operations in the NEM</li> </ul>
INDUSTRY	<ul style="list-style-type: none"> <li>• Participant readiness activity is <b>not</b> a pre-requisite for go-live.</li> <li>• However to ensure that NEM operations remain uninterrupted and reliable, <u>AEMO will monitor for any systemic issue</u> that materially affects NEM operational integrity. Examples could include:                             <ul style="list-style-type: none"> <li>– AEMO deliverables required for participants being late</li> <li>– Key vendor not being ready, affecting multiple participants</li> <li>– Major market event e.g. ROLR, suspension</li> <li>– Pandemic</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Participant readiness activity is not a pre-requisite for go-live, noting:                             <ul style="list-style-type: none"> <li>– BDU transition period to 03 Mar 2025 means that there is no industry readiness requirement for “day 1” (rule commencement)</li> <li>– Participants can cutover on or near rule commencement date if they choose to and are ready</li> <li>– AEMO will provide support for participant development and report on interim milestones.</li> </ul> </li> </ul>
CONTINGENCY	Contingency approaches to be developed and discussed with IF	

# IESS June 2024: Go-live criteria management

- As per previous releases, industry checkpoints will be held at Implementation Forum
- **Purpose:** to provide assurance of implementation/rule commencement preparations ahead of the industry test period, allowing time for finalising AEMO's and participants' business preparation.

Proposed checkpoints	Description
<b>Tue 28 Nov 23</b>	~6 months prior to go-live
<b>Late Feb 2024</b>	~3 months prior to go-live
<b>Late Apr 2024</b>	~1 month prior to go-live 1 month into market trial
<b>As needed</b>	In lead up to go-live/ rule commencement



For more information visit

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