

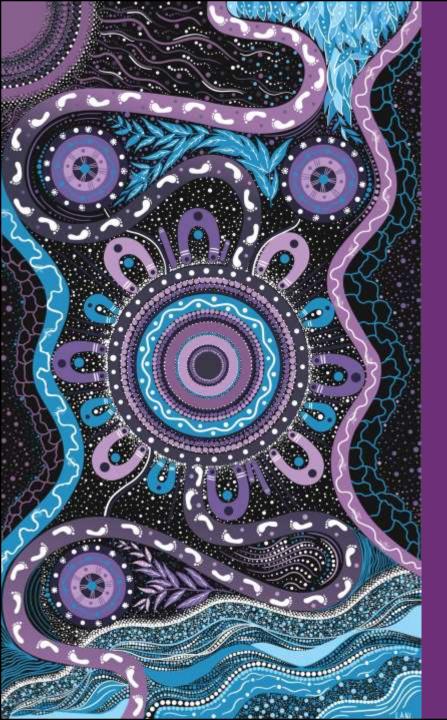
NEM Reform Implementation Forum

Meeting #31 19 March 2025





1. Welcome





We acknowledge the Traditional Custodians of the land, seas and waters across Australia. We honour the wisdom of Aboriginal and Torres Strait Islander Elders past and present and embrace future generations.

We acknowledge that, wherever we work, we do so on Aboriginal and Torres Strait Islander lands. We pay respect to the world's oldest continuing culture and First Nations peoples' deep and continuing connection to Country; and hope that our work can benefit both people and Country.

'Journey of unity: AEMO's Reconciliation Path' by Lani Balzan

AEMO Group is proud to have delivered its first Reconciliation Action Plan in May 2024. 'Journey of unity: AEMO's Reconciliation Path' was created by Wiradjuri artist Lani Balzan to visually narrate our ongoing journey towards reconciliation - a collaborative endeavour that honours First Nations cultures, fosters mutual understanding, and paves the way for a brighter, more inclusive future.





Agenda

#	Time	Topic	Presenter	#	Time	Topic	Presenter
1	1:00-1:05PM	Welcome	Ulrika Lindholm	7	2:10-2:30PM	October 2025 Release • Metering Services Review (MSR)	Justin Stute
2	1:05-1:10PM	Actions & Feedback from Previous Meeting	Ulrika Lindholm			 Progress Update PQD 	oddin otato
3	1:10-1:20PM	2025 /2026 Release Summary	Greg Minney				
4	1:20-1:30PM	Environment Activities & TimingsRefresh timings	Chris Fleming	8	2:30-2:40PM	December 2025 ReleaseImproving Security Frameworks (ISF) for the Energy Transition	Alice Michener
5	1:30-1:50PM	June 2025 ReleaseFrequency Performance Payments (FPP)Progress/Update	Chris Fleming 10 ts			IDAM & IDX Draft Implementation Schedules	For Noting
		 FO Market Trial Settlement Runs Practitest Readiness Checkpoint Results • SCADA Lite – progress update				 Upcoming Initiatives Flexible Trading Arrangements (FTA) Project Energy Connect Market Integration (PEC-MI) Shortened Settlement Cycles (SSC) Integrating Price Responsive Resources (IPRR) into the NEM 	For Noting
6	1:50-2:10PM	July 2025 Release	Oliver Derum				
		 Enhancing Reserve Information (ERI) Progress Update 		11	2:40-2:45PM	Stakeholder Engagement • Upcoming Engagement	Lenard Bayne
		 ST PASA Procedure and Recall Period Progress/Release/Timing/ Implications update 	Jen Hardman		2:45-3:00PM	General Questions & Other Business	Ulrika Lindholm

Appendix A:

Competition law meeting protocol and AEMO forum expectations



2. Actions & Feedback from Previous Meeting





Item	Topic	Action	Responsible	Status
30.3.0.1	2025 / 2026 Release Summary	AEMO to issue a copy of the MITE FEB PCF slide pack to Implementation forum members post Feb PCF.	AEMO	Closed

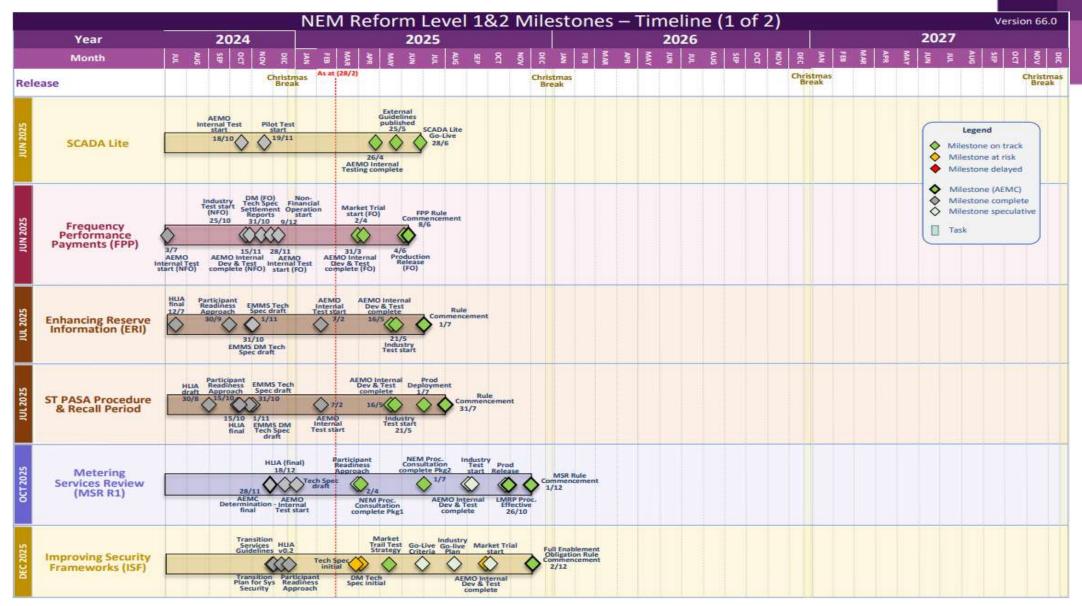
The latest meeting minutes and materials are available on the <u>Implementation Forum</u> webpage.



3. 2025 / 2026 Release Summary

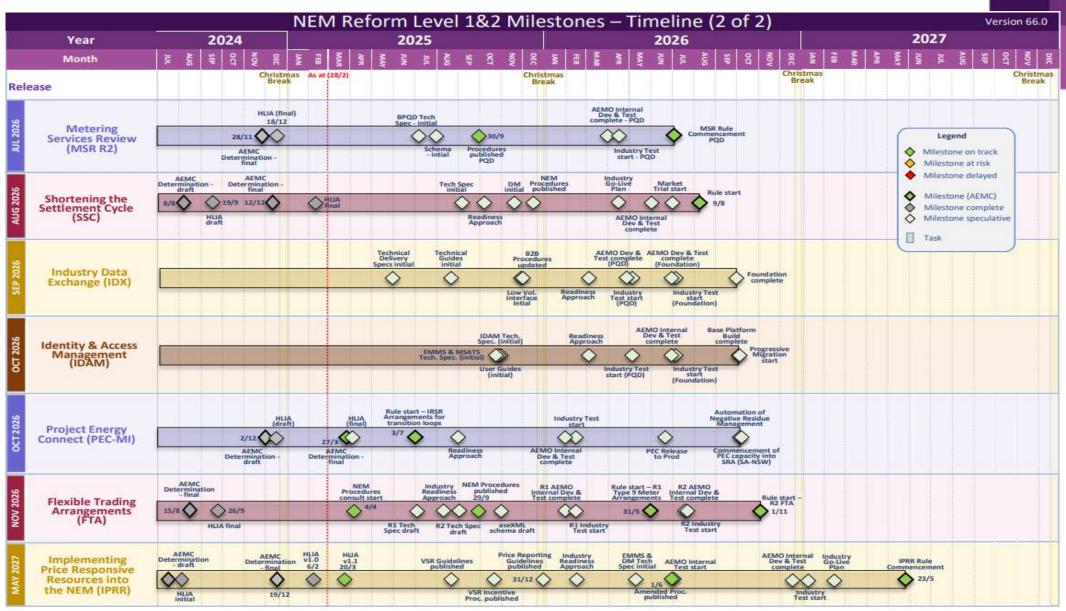
Release Summary milestones 1/2





Release Summary milestones 2/2







4. Environment Activities & Timings

Environment Updates



Pre-prod refresh dates and outage timings for 2025

- Pre-prod Wholesale and Retail refresh required to support FPP (FO) Market Trial completed successfully.
 - Wholesale production copy for the refresh was taken on 17 Feb.
 - Retail production copy for the refresh was taken on 24 Feb.
- Further pre-prod refresh has been scheduled for late Aug 2025 to support the ISF Market Trial.

Data Model updates

- Data Model 5.5 scheduled to be deployed in Pre-Prod <u>25 March</u> and production <u>29 April.</u>
- IESS settlements transition ends with this DM Release.
 - Legacy tables will no longer be available e.g. SETCPDATA, SETGENDATA, SETSMALLGENDATA. For a full list of discontinued reports please refer to the Model v5.5 April 2025.



5. June 2025 Release



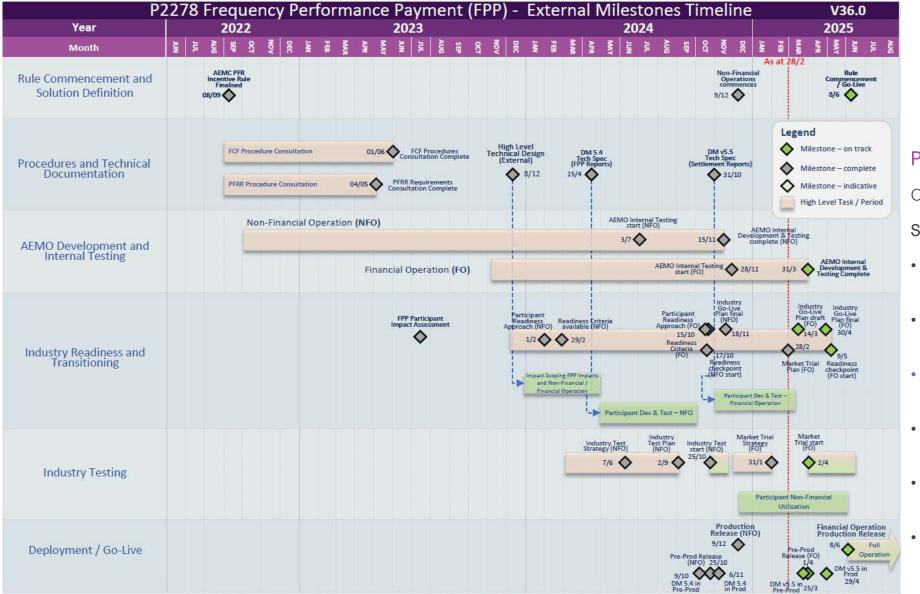
Frequency Performance Payments (FPP)

Oliver Derum / Chris Fleming



Frequency Performance Payments (FPP) Milestones Timeline





Progress Summary

Overall project status **GREEN**

Settlements Release – FPP-FO

- AEMO on track for Market Trial commencement 2 April 2025.
- Update to <u>EMMS DM Tech Spec v5.5</u> released 29 Jan.
- Market Trial Strategy published 31 Jan.
- Update to <u>Market Trial Test Plan</u> published 28 Feb.
- 3-month Readiness Checkpoint results available.
- Draft Industry Go-live Plan has been published AEMO welcomes your feedback 2025.





FPP-NFO Briefing Session

• Invitations have been sent out to a stakeholder presentation on 24 March (11am-12pm AEDT) on initial observations from the first months of NFO. Register here for that event.

FPP-FO Update

- AEMC final determination to <u>amendment of FPP Cost Recovery</u> expected 13 March 2025.
- AEMO has not yet received a ruling from the ATO regarding the GST treatment of FPPs. However, AEMO is making preparations to start the market trial with GST being applied to FPPs.
- AEMO <u>expedited consultation</u> on updates to the Frequency Contribution Factors Procedure (FCFP):
 - Draft report and proposed procedure change published 21 February 2025.
 - AEMO did not receive any feedback that the process should not be expedited. Submissions to the draft procedure change are due by 21 March.
 - Final report will be published 1 April 2025



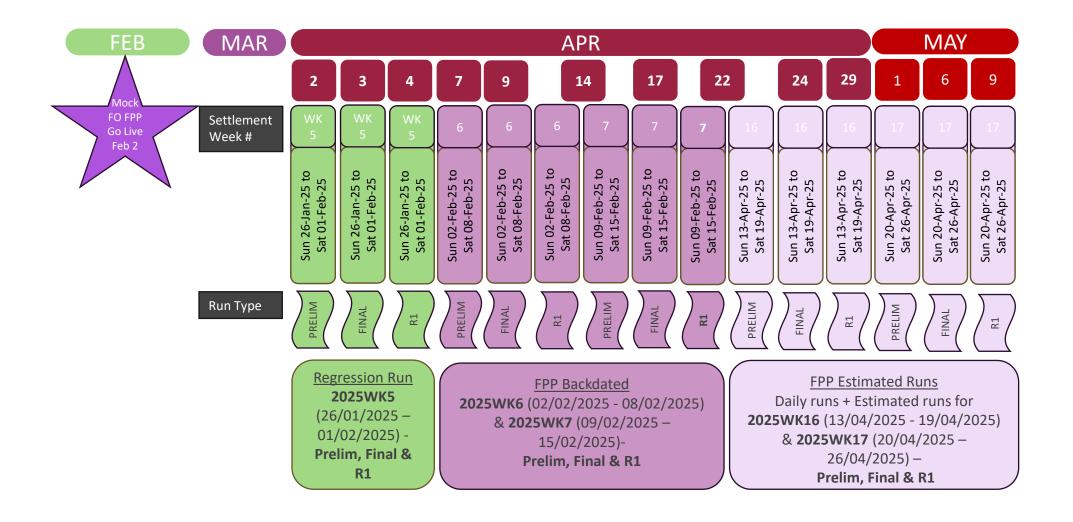


FPP-FO Market Trial Planning

- Market Trial Strategy published on 31 January
- <u>Market Trial Plan</u> published 28 Feb. Feedback and questions on the plan can be directed to <u>NEMReform@aemo.com.au</u> by 21 March.
- Q&A sessions have been scheduled, commencing 31 March. Contact <u>NEMReform@aemo.com.au</u> to have members of your organisation added to this meeting series.
- Participants are asked to register for the market trial, so that Practitest access and training can be arranged.
 Registration link is here: FPP (FO) Market Trial Registration. Practitest Training to be held on 19 March and 26 March.
- Settlements schedule has been released to ITWG members for feedback. Further feedback can be directed to <u>NEMReform@aemo.com.au</u> by 21 March.
- Structure of the Market Trial (outlined on the following slide):
 - Backdated regression run (without FPP): Prelim, Final & R1 for week 5.
 - Runs with FPP Backdated: Prelim, Final & R1 for weeks 6 and 7.
 - FPP Forward Date: Daily runs (estimates), Final & R1 for weeks 16 and 17.

FPP Market Trial Schedule







FPP-FO Check point – 3 Months prior to rule commencement



- AEMO has conducted initiative readiness checkpoint as at 12 March.
- Intention is to provide industry with assessment of progress against the agreed go-live criteria
 - Considerations for implementation planning
 - Readiness for commencement and execution of Market trial in planned timeframes.

3-month readiness & go-live checkpoint



INITIATIVE	 FPP-FO Sun 08 Jun 2025 Rule Commencement FPP arrangements replacing 'causer pays' arrangements FPP Units performance and 5-min Contribution Factor calculations used to allocate recovery of Reg FCAS costs and penalties 	Summary status: On- track Overall on track against schedule, noting: In the absence of ATO GST ruling, AEMO will proceed to include GST in financial settlements
	GO-LIVE CRITERIA	ASSESSMENT / COMMENTS
AEMO	NEM Rules/Procedures:	 NEM Rules/Procedures: AEMC amendment to FPP rule, as requested by AEMO, finalised 13 March 2025 Binding private ruling from ATO re GST treatment of FPPs – no decision received to date. AEMO will proceed on the basis that GST will be included in FPP financial settlements. Frequency Contributions Factor Procedure non-material changes - on track for 1 April 2025. No risk to FPP go-live.
	AEMO solution tested in-line with requirements for: Settlements and billing based on FFP calculations. DM v5.5 and NEM FPP Settlement Reports	 Solution readiness summary: FPP Settlements solution and NEM Reports on track for Market Trial and June go-live Certification of FPP solution and Settlements in progress with expected completion prior to 8 June
	AEMO business: Ready to operate new FPP arrangements	 Business readiness summary Preparations proceeding to schedule for business to support post go-live.
INDUSTRY	 Individual Participant readiness activity is not a pre-requisite for go-live. However, Participants may wish to make system/process changes to reconcile AEMO payments/penalties in accordance with rule commencement. 	 Introduction of Financial Operations is based on AEMO using the standard approach for settlements and reporting. There is no dependent participant preparatory activity identified that would inhibit rule commencement as scheduled.
CONTINGENCY	Contingency approaches developed and contingency actions proposed	Agreed contingencies being monitored, no trigger points exceeded with confirmations required in line with May go-live checkpoint



FPP- External Milestones NFO (as at 28/2/25) - Delivery

Level v	Milestone IE v	Milestone	Projec √	Target Date	Expected Da v	Status 🖳	RAG ~	Tentative / Confirmed	Commentary
Level 2	FPP-221	High Level Technical Design (External)	FPP-NFO	15-Dec-2023	8-Dec-2023	Complete		Confirmed	
Level 2	FPP-222	Participant Readiness Approach (incl. Dev Support Reamts) published	FPP-NFO	1-Feb-2024	1-Feb-2024	Complete		Confirmed	
Level 2	FPP-230	Readiness Criteria available (NFO)	FPP-NFO	29-Feb-2024	29-Feb-2024	Complete		Confirmed	
Level 2	FPP-217	Data Model 5.4 Tech Spec (FPP Reports)	FPP-NFO	15-Apr-2024	15-Apr-2024	Complete		Confirmed	Project resource to deliver confirmed
Level 2	FPP-227	Industry Test Strategy (NFO) published	FPP-NFO	7-Jun-2024	7-Jun-2024	Complete		Confirmed	
Level 2	FPP-212	AEMO Internal Testing commenced (NFO)	FPP-NFO	3-Jul-2024	3-Jul-2024	Complete		Confirmed	Delays in completion of components of internal functionality. Internal testing commencement not impacted
Level 2	FPP-229	Industry Test Plan published (NFO)	FPP-NFO	2-Sep-2024	2-Sep-2024	Complete		Confirmed	
Level 2	FPP-233	Data Model 5.4 available in Pre-Prod	FPP-NFO	25-Sep-2024	9-Oct-2024	Complete		Confirmed	Deferred due to maintenance in Pre-Prod
Level 2	FPP-232	Readiness Checkpoint - Industry Test start (NFO)	FPP-NFO	15-Oct-2024	17-Oct-2024	Complete		Confirmed	
Level 2	FPP-225	Pre-Production Release (NFO)	FPP-NFO	25-Oct-2024		Complete		Confirmed	
Level 1	FPP-104	Industry Test start (NFO)	FPP-NFO	25-Oct-2024		Complete		Confirmed	
Level 2	FPP-234	Industry Go-Live Plan published - draft (NFO)	FPP-NFO	4-Nov-2024	22-Oct-2024			Confirmed	
Level 2	FPP-236	Readiness Checkpoint - Go-Live (NFO)	FPP-NFO	8-Nov-2024	17-Oct-2024	Complete		Confirmed	Combined with 17/10 checkpoint. On track for go-live
Level 2	FPP-238	Data Model 5.4 available in Prod	FPP-NFO	6-Nov-2024	6-Nov-2024	Complete		Confirmed	Rescheduled from 30/10 due follow on impact of maintenance in Pre-Prod, maintaining duration available in Pre-Prod
Level 1	FPP-103	AEMO Internal Development & Testing complete (NFO)	FPP-NFO	22-Oct-2024	15-Nov-2024	Complete		Confirmed	Complete except redevelopment of 4 external reports
Level 2	FPP-235	Industry Go-Live Plan published - final (NFO)	FPP-NFO	18-Nov-2024	18-Nov-2024	Complete		Confirmed	
Level 2	FPP-215	Industry Test finish (NFO)	FPP-NFO	22-Nov-2024		Complete		Confirmed	
Level 2	FPP-246	Production Release (NFO)	FPP-NFO	9-Dec-2024	9-Dec-2024	Complete		Confirmed	Will be completed prior to 9th of December
Level 1	FPP-105	Non-Financial Operations commences	FPP-NFO	9-Dec-2024	9-Dec-2024	Complete		Confirmed	



FPP- External Milestones FO (as at 28/2/25) - Delivery

FPP Pr	oject - Lev	vel 1 & 2 Milestones (External)							
Level	Milestone ID	Milestone	Project	Target Date	Expected Dat	Status	RAG	Tentative / Confirmed ▼	Commentary
Level 2	FPP-218	Data Model (FO) Tech Spec (Settlement Reports)	FPP-FO	31-Oct-2024	31-Oct-2024	Complete		Confirmed	Shifted fom 22/9 to align with other DM 5.5 inititaives
Level 2	FPP-214	Participant Readiness Approach published (Financial Operation)	FPP-FO	31-Oct-2024	15-Oct-2024	Complete		Confirmed	Shifted from 1/10 to remove overlap with NFO release considerations
Level 2	FPP-237	AEMO Internal Testing commenced (FO)	FPP-FO	28-Nov-2024		Complete		Confirmed	
Level 2	FPP-223	Market Trial Strategy published (Financial Operation)	FPP-FO	31-Jan-2025	31-Jan-2025	Complete		Confirmed	
Level 2	FPP-224	Readiness Criteria available (Financial Operation)	FPP-FO	31-Jan-2025	15-Oct-2024	Complete		Confirmed	
Level 2	FPP-246	Market Trial Plan complete (Financial Operation)	FPP-FO	28-Feb-2025	28-Feb-2025	Complete		Confirmed	
Level 2	FPP-239	Industry Go-Live Plan published - draft (Financial Operation)	FPP-FO	14-Mar-2025			Green	Confirmed	Updated from 3/3 to commence execution post DM availability
Level 2	FPP-240	Readiness Checkpoint (3 months) (Financial Operation)	FPP-FO	14-Mar-2025			Green	Confirmed	
Level 2	FPP-241	Industry Development Finish (Financial Operation)	FPP-FO	15-Mar-2025			Green	Tentative	
Level 2	FPP-242	Data Model (FO) available in Pre-Prod	FPP-FO	25-Mar-2025			Green	Confirmed	
Level 2	FPP-245	Data Model (FO) available in Prod	FPP-FO	29-Apr-2025			Green	Confirmed	
Level 2	FPP-226	Pre-Production Release (Financial Operation)	FPP-FO	1-Apr-2025			Green	Confirmed	Shifted from 14/3 to commence execution post DM availability
Level 1	FPP-108	Market Trial start (Financial Operation)	FPP-FO	2-Apr-2025			Green	Confirmed	Shifted from 17/3 to commence execution post DM availability
Level 2	FPP-243	Industry Go-Live Plan published - final (Financial Operation)	FPP-FO	30-Apr-2025			Green	Confirmed	
Level 1	FPP-107	AEMO Internal Development & Testing complete (Financial Operation)	FPP-FO	31-Mar-2025			Green	Confirmed	
Level 2	FPP-244	Readiness Checkpoint - Financial Operation	FPP-FO	9-May-2025			Green	Confirmed	
Level 2	FPP-245	Market Trial finish (Financial Operation)	FPP-FO	20-May-2025			Green	Tentative	
Level 1	FPP-109	Production Release (Financial Operation)	FPP-FO	4-Jun-2025			Green	Confirmed	
Level 1	FPP-106	FPP Project Go-Live / Rule Commencement	FPP-FO	8-Jun-2025			Green	Confirmed	



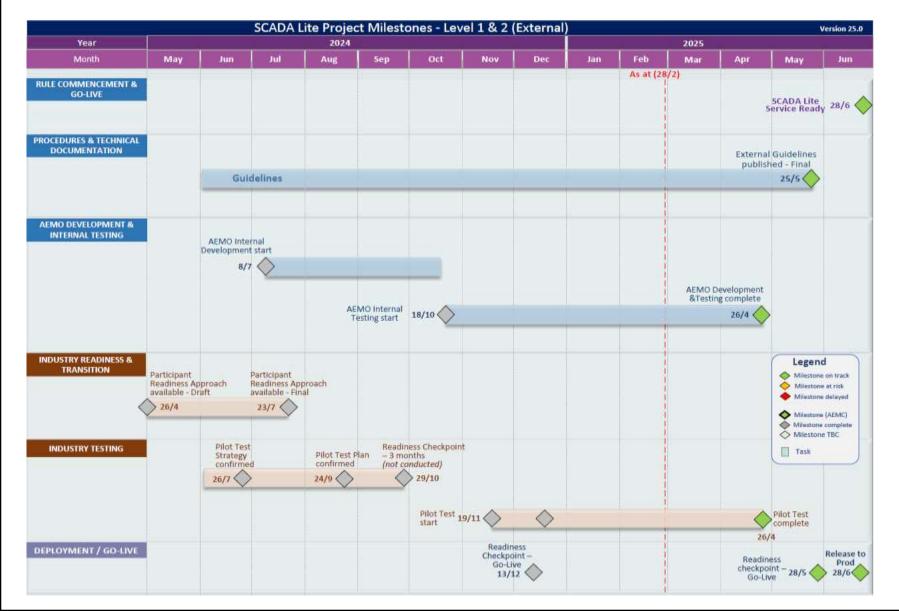
SCADA Lite

Greg Minney



SCADA Lite Timeline





Progress Summary

Overall project status **AMBER**

- AEMO testing on track for completion 26 Apr 2025.
- Service guideline being developed and on track for 25 May 2025.
- Go-live readiness checkpoint target 28 May.
- SCADA lite Service available from 28 Jun 2025 for eligible participants to apply.



SCADA Lite - milestones

Level ~	Milestone IE ~	Milestone	Project ~	Target Da	Expected Date	RAG -	Tentative Confirmed	Commentary
Level 2	SCL-201	Partcipant Impact Assessment issued	SCADA Lite	13-Sep-2023			Confirmed	Î
Level 2	SCL-202	Participant Readiness Approach available - Draft	SCADA Lite	23-Apr-2024	26-Apr-2024		Confirmed	
Level 2	SCL-203	AEMO development and internal testing commences	SCADA Lite	8-Jul-2024	Į.		Confirmed	
Level 2	SCL-203	Participant Readiness Approach available- Final	SCADA Life	23-Jul-2024			Confirmed	
Level 2	SCL-204	Participant Readiness and Go-live Criteria published	SCADA Lite	26-Jul-2024	ĺ		Confirmed	Î
Level 2	SCL-205	Pliot Test Strategy confirmed with participant	SCADA Lite	26-Jul-2024			Confirmed	Í
Level 2	SCL-208	Pilot Test Plan confirmed with participant	SCADA Lite	30-Aug-2024	24-Sep-2024		Confirmed	3 week delay, no flow on impact
Level 2	SCL-207	AEMO Internal Testing start	SCADA Lite	18-Oct-2024	Í		Confirmed	
Level 2	SCL-206	Readiness Checkpoint - 3 month	SCADA Lite	29-Oct-2024	N/A		Confirmed	Checkpoint not conducted due to delivery schedule replanning
Level 1	SCL-102	Pliot test period commences	SCADA Lite	14-Nov-2024	19-Nov-2024		Confirmed	Pilot Test for network started
Level 2	SCL-210	Readiness checkpoint - Go-live (Comms)	SCADA Lite	13-Dec-2024	13-Dec-2024		Confirmed	
Level 1	SCL-101	AEMO development and internal testing complete	SCADA Life	26-Apr-2025		Green	Confirmed	Schedule re-baseline
Level 1	SCL-103	Pliot Test Complete	SCADA Lite	26-Apr-2025		Green	Confirmed	Pilot Test period extended to allow for participant readiness.
Level 2	SCL-211	External Guidelines published - Final	SCADA Lite	25-May-2025		Green	Confirmed	Extended to allow any minor guideline changes that are identified closer to go-live
Level 2	SCL-213	Readiness Checkpoint - Go-Live (1 month)	SCADA Lite	28-May-2025		Green	Confirmed	1 - 1
Level 1	SCL-104	Production Release	SCADA Lite	28-Jun-2025		Green	Confirmed	To be re-assessed as part of production release re-schedule





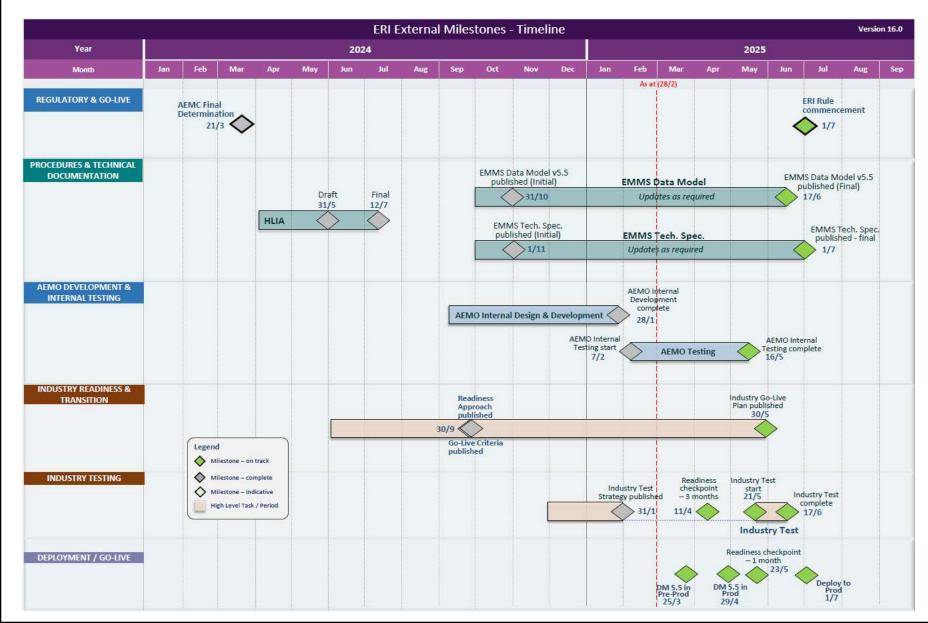


Enhanced Reserve Information (ERI)

Oliver Derum



ERI development and testing timeline





Progress Summary

Overall project status **GREEN**

- Integration testing complete, UAT remains on schedule with external milestones.
- Minor update to <u>ERI and ST</u> <u>PASA Recall Period Industry</u> <u>Test Strategy</u> for ERI published 28 Feb 2025
- EMMS Data Model v5.5 available Pre-production 25 Mar 2025.
- Draft combined ERI/ST PASA Industry Go-live Plan available early May 2025.

Note

Commencement of aggregated state of charge reporting each trading interval in Tasmania will not occur until three independently operated gridscale batteries are present, or on 1 July 2027 at the latest. A proportional period of re-testing, readiness and engagement activity will precede commencement.



ERI March update

- Minor update to <u>ERI and ST PASA Recall Period Industry Test Strategy</u> for ERI published 28 Feb 2025
- For further information refer to the <u>Enhanced Reserve Information page</u>.

Industry Test Update

- Updates to Schedule 3.1 form (bid and offer validation data) will not be available for the Industry Test but will be available for go-live.
- Q&A sessions for the Industry test will be scheduled twice weekly from 20 May to 17 June 2025
- For further information please refer to the <u>Enhanced Reserve Information</u> page.

ERI test scope



- ERI Industry Test Scope
 - Market Registration:
 - Collect and maintain the Maximum Storage Capacity (MWh) data provided by participants to AEMO, subject to BAU timings.
 - Bids & Offers:
 - Bidding System changes to the validation of bid Daily Energy Constraint, so that an energy bid is rejected if the Daily Energy Constraint ≥ registered Max Capacity x 24 hours, with an error message reported to the participant.
 - Impacted participants to upgrade their software and be able to submit a 'NULL' value for Daily Energy Constraint, to indicate that their generator is not constrained.
 - Changes to support different CVP (constraint violation penalties).
 - Market Schedule / Dispatch:
 - AEMO to calculate aggregated daily energy limits (total availability) for scheduled generators and BDUs that are not batteries.
 - Calculate aggregated State of Charge (SOC) by region for batteries.



ERI Milestones

		Enhancing Reserves Info			Willeste		Tentative /	
Level	Milestone ID	Milestone	Target Date	Expected Date	Status	RAG	Confirmed	Commentary
evel 2	ERI-201	AEMC Draft determination	21-Dec-2023	21-Dec-2023	Complete		Confirmed	
.evel 1	ERI-101	AEMC Final Determination	21-Mar-2024	21-Mar-2024	Complete		Confirmed	
Level 2	ERI-202	HLID/ PIA (draft)	31-May-2024	31-May-2024	Complete		Confirmed	
Level 2	ERI-203	Updated HLID / PIA (final)	5-Jul-2024	12-Jul-2024	Complete		Confirmed	
Level 2	ERI-205	Industry Readiness Approach published	30-Sep-2024	30-Sep-2024	Complete		Confirmed	Milestone shifted from 30/8 to align with Confirmed milestones, and industry response to draft approaches
Level 2	ERI-206	Industry Go-Live Criteria published	30-Sep-2024	30-Sep-2024	Complete		Confirmed	Milestone shifted from 30/8 to align with Confirmed milestones, and industry response to draft approaches
Level 2	ERI-204	EMMS Data Model v5.5 Tech Spec published (initial)	31-Oct-2024	31-Oct-2024	Complete		Confirmed	
Level 2	ERI-216	EMMS Tech Spec published (initial)	1-Nov-2024	1-Nov-2024	Complete		Confirmed	
Level 2	ERI-209	Industry Test Strategy published	31-Jan-2025	31-Jan-2025	Complete		Confirmed	
Level 2	ERI-207	AEMO Internal Development complete	21-Feb-2025	28-Jan-2025	Complete		Confirmed	
Level 2	ERI-208	AEMO Internal Testing start	24-Feb-2025	7-Feb-2025	Complete		Confirmed	
Level 2	ERI-212	EMMS Data Model 5.5 released to Pre-Production	25-Mar-2025			Green	Confirmed	
Level 2	ERI-217	Readiness checkpoint - 3 months	11-Apr-2025			Green	Confirmed	
Level 2	ERI-213	EMMS Data Model 5.5 released to Production	29-Apr-2025			Green	Confirmed	
Level 2	ERI-210	AEMO Internal Development & Testing complete	16-May-2025			Green	Confirmed	
Level 1	ERI-102	Industry Testing start	21-May-2025			Green	Confirmed	
Level 2	ERI-211	Industry Go-Live Plan published	30-May-2025			Green	Confirmed	
Level 2	ERI-218	Readiness checkpoint - 1 month	23-May-2025			Green	Confirmed	
Level 2	ERI-215	Industry Testing complete	17-Jun-2025			Green	Confirmed	
Level 2	ERI-214	EMMS Data Model v5.5 Tech Spec published (final)	17-Jun-2025			Green	Confirmed	
Level 2	ERI-219	EMMS Tech Spec published (Final)	1-Jul-2025			Green	Confirmed	
Level 1	ERI-103	Deployment to Production (Reporting)	1-Jul-2025			Green	Confirmed	
Level 1	ERI-104	Rule Commencement (Reporting)	1-Jul-2025			Green	Confirmed	
Level 2	ERI-	AEMO Internal Testing start (Real Time Reporting)	15-Feb-2027			Green	Tentative	
Level 2	ERI-	Industry Readiness Approach published (Real Time Reporting)	15-Jan-2027			Green	Tentative	
Level 2	ERI-	Industry Go-Live Criteria published (Real Time Reporting)	15-Mar-2027			Green	Tentative	
Level 2	ERI-	Industry Test Strategy published (Real Time Reporting)	15-Mar-2027			Green	Tentative	
Level 1	ERI-	Industry Testing Commences (Real Time Reporting)	15-May-2027	1		Green	Tentative	
Level 2	ERI-	Industry Go-Live Plan published (Real Time Reporting)	30-May-2027		1	Green	Tentative	
Level 1	ERI-	Deployment to Production (Real Time Reporting)	1-Jul-2027			Green	Tentative	
Level 1	ERI-	Rule Commencement (Real Time Reporting)	1-Jul-2027			Green	Tentative	



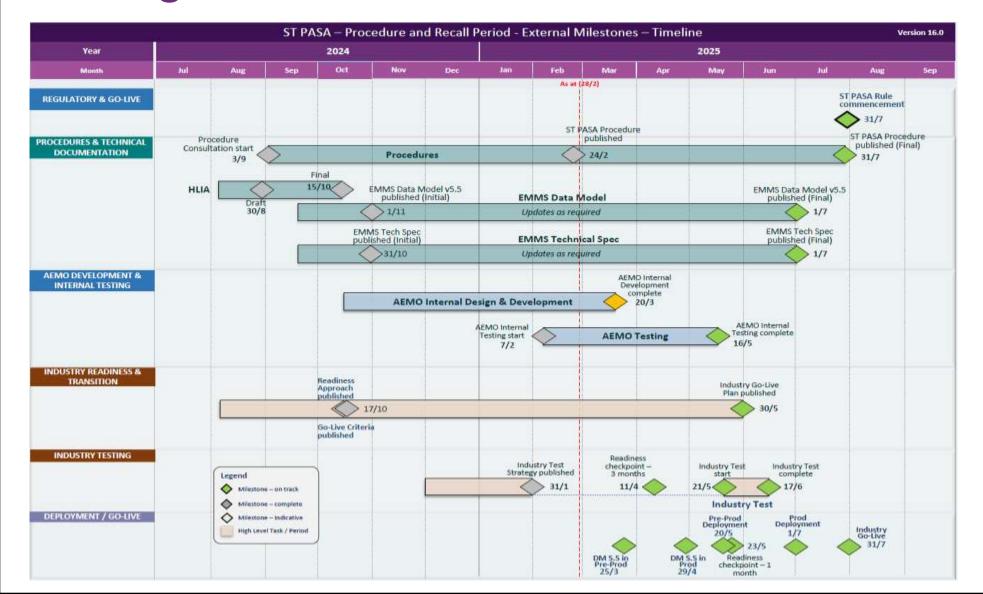
ST PASA Procedure & Recall Period

Jen Hardman



ST PASA Procedure & Recall Period development and testing timeline





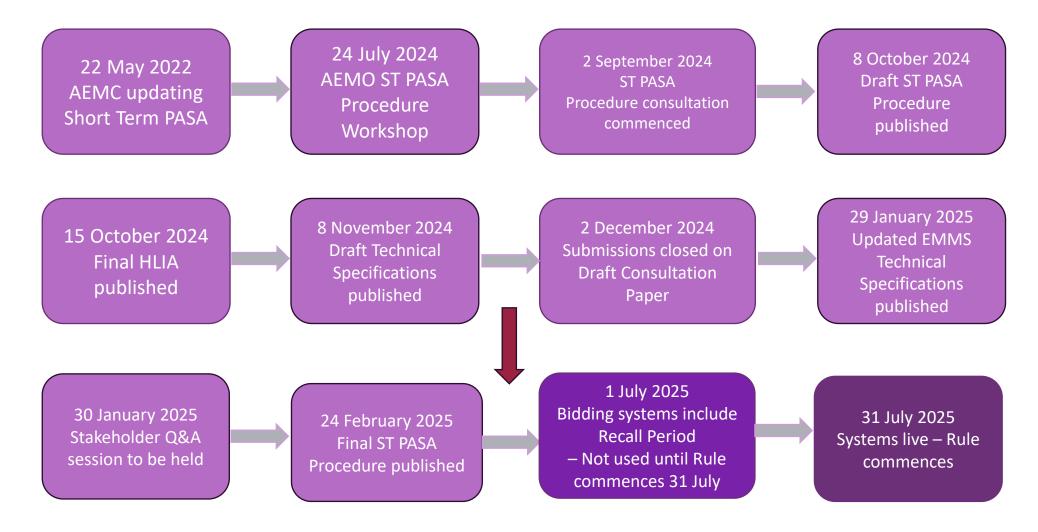
Progress Summary

Overall project status Amber

- Amber is showing for AEMO due to late changes in NEM Reporting requirements which have delayed AEMO development and testing. No Participant or timeline impact.
- Final Report and ST PASA <u>Procedure</u> published Feb 2025.
- ERI and ST PASA Recall Period Industry Test Strategy published 28 Feb 2025.
- EMMS Data Model v5.5 available Preprod 25 Mar 2025
- Draft combined ERI/ST PASA Industry Go-live Plan available early May 2025.

ST PASA Procedure Indicative High-level Timeline





QUICK REFERENCES

- AEMO ST PASA Procedure and Recall Period webpage
- AEMC Updating Short Term PASA



ST PASA Procedure & Recall Period March update

- Final Report and ST PASA Procedure published Monday 24 Feb.
- Late changes to NEM reporting requirements has pushed the internal development and system testing completion date to 20 March.
- UAT anticipated to commence as planned.
- No impact expected to Industry Testing start on track for 21 May 2025.

For further information including readiness activities and approach e.g. Industry Test Strategy, Industry Go-Live Plan, Q&A's and more, please refer to the <u>ST PASA Procedure and Recall page</u> and the <u>Final ERI and ST PASA Industry Readiness Approach</u>.

ST PASA Procedure & Recall Period test scope



- ST PASA Recall Period test scope.
 - Bids & Offers
 - Participants will be able to supply Recall Period for the associated PASA availability for each trading interval via the normal bids.
 - Scheduled resources to be able to provide the Bid Max Avail, PASA Avail and Recall Period in the short-term time frame.
 - Publish Market Data
 - Forecasts of the available capacity of individual scheduled generating plant, wholesale demand response unit and BDUs.
 - Forecasts of PASA availability for individual scheduled generating units, scheduled loads, scheduled network service providers and wholesale demand response units.
 - Load forecasts at a range of probability of exceedance levels.
 - Period to be covered by the short term PASA in each 30-minute period in at least the seven trading days from and including the day of publication.
 - At the end of the trading day, publish 'Recall Period' from all bids for the previous trading day.



ST PASA Recall Period Milestones

	ST PASA Recall Period - Level 1 & 2 Milestones (External)									
Level	Milestone ID	Milestone	Target Date	Expected Date	RAG	Tentative / Confirmed	Commentary			
Level 2	STP-201	HLIA published - draft	30-Aug-2024	30-Aug-2024		Confirmed	includes indicative readiness approach			
Level 2	STP-203	Procedure Consultation start	2-Sep-2024	2-Sep-2024		Confirmed				
Level 2	STP-202	HLIA published - final	15-Oct-2024	17-Oct-2024		Confirmed				
Level 2	STP-206	Industry Readiness Approach published	15-Oct-2024	17-Oct-2024		Confirmed				
Level 2	STP-207	Industry Go-Live Criteria published	15-Oct-2024	17-Oct-2024		Confirmed				
Level 2	STP-204	EMMS Data Model v5.5 published - initial	31-Oct-2024	1-Nov-2024		Confirmed				
Level 2	STP-205	EMMS Technical Spec published - initial	8-Nov-2024	31-Oct-2024		Confirmed	update published 29/1			
Level 2	STP-210	Industry Test Strategy published	31-Jan-2025	31-Jan-2025		Confirmed				
Level 2	STP-209	AEMO Internal Testing start	24-Feb-2025	7-Feb-2025		Confirmed				
Level 2	STP-212	ST PASA Procedure published	24-Feb-2025	24-Feb-2025		Confirmed				
Level 2	STP-208	AEMO Internal Development complete	21-Feb-2025	20-Mar-2025	Amber	Confirmed	Late changes in NEM Report requirements has pushed development completion to 20 March 2025. No participant or timeline impact.			
Level 2	STP-211	EMMS Data Model v5.5 deployed to Pre-Production	25-Mar-2025		Green	Confirmed				
Level 2	STP-213	Readiness checkpoint - 3 months	11-Apr-2025		Green	Confirmed				
Level 2	STP-214	EMMS Data Model v5.5 deployed to Production	29-Apr-2025		Green	Confirmed				
Level 1	STP-101	AEMO Internal Testing complete	16-May-2025		Green	Confirmed				
Level 2	STP-215	Pre-Production deployment complete	20-May-2025		Green	Confirmed				
Level 1	STP-102	Industry Test start	21-May-2025		Green	Confirmed				
Level 2	STP-216	Industry Go-Live Plan published	30-May-2025		Green	Confirmed				
Level 2	STP-218	Readiness checkpoint - 1 month	23-May-2025		Green	Confirmed				
Level 2	STP-217	Industry Test complete	17-Jun-2025		Green	Confirmed				
Level 2	STP-219	EMMS Data Model v5.5 published - final	1-Jul-2025		Green	Confirmed				
Level 2	STP-220	EMMS Technical Spec published - final	1-Jul-2025		Green	Confirmed				
Level 1	STP-103	Production Deployment complete	1-Jul-2025		Green	Confirmed				
Level 1	STP-104	Industry Go-Live	31-Jul-2025		Green	Confirmed				
Level 1	STP-105	ST PASA Recall Period - Rule Commencement	31-Jul-2025		Green	Confirmed				

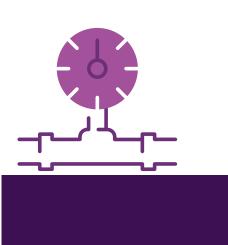






Metering Services Review (MSR)

Justin Stute







On 28 November 2024, the Australian Energy Market Commission (AEMC) published the Accelerating Smart Meter Deployment (ASMD) final rule to achieve universal smart meter deployment in the NEM by 2030. The final rule introduces a package of reforms designed to accelerate the deployment of smart meters and unlock the benefits of smart meter data.

AEMO has created three consultations packages for this rule change:

Package 1: Acceleration

Package 2: Testing/Inspection and Malfunctions

Package 3: Power Quality Data



Metering Services Review – Package 1

AEMO published its draft determination for Package 1 on the 18 December 2024.

Package 1 details:

- Legacy Meter Replacement Plan the DNSP to populate a date against a new attribute in LMRP attribute in MSATS. Loading of this data to occur from 26 October to 27 November 2025
- Defects at the metering installation MSATS to include the defect type of the metering installation and defect flag.
- Shared isolation v3.9 of the IEC consultation considers the coordination requirements for shared isolation as well as the business-to-business changes to accommodate meter exchanges for LMRP sites and those sites with defects.
- Other matters ICFs, RoLR and Embedded Network Settlement Anomalies





Draft Determination Responses

MSR (LMRP and Defects)

- Participants proposed changes to the attributes named Originating MC and LMRP
- Participants questioned the value of the Defect Flag attribute if a Defect Type is used
- There were mixed responses to the use of Change Requests for LMRP
- Participants sough clarification on the date field for LMRP
- At 3 March 2025 ERCF meeting participants question if the LMRP field should be cleared on installation of a smart meter





AEMO published the issues paper for Package 2 on 10 February.

Package 2 details:

- Development of an asset management strategy to reliably test metering installation accuracy
 and identify metering installation condition faults in a reasonable period, regarding costs and
 benefits to consumers.
- Modification to the Metering Installation Malfunction Exemption procedure and potential changes to the Metering Installation Exemption Guideline procedure for metering installation malfunctions to comply with the new requirements in the Final rule.





AEMO plans to publish its issues paper for Package 3 early April 2025.

Package 3 details:

- Delivery of Basic Power Quality Data from the Metering Coordinator to the DNSP
- Effective date of the reform begins 1 July 2026



Metering Services Review – Technical Specification

AEMO published its draft Technical Specification on 17 December 2024
https://visualisations.aemo.com.au/aemo/web-
techspecportal/Content/TSP_MSATS_Oct2025/MSATS_-_Technical_Specification_-_October_2025.pdf

Projects included:

- MSR Package 1 (acceleration)
- Embedded Network Settlement Anomalies
- RoLR reporting
- ICF 077, ICF 078
- IEC B004/22, IEC -B002/22





- r46 to be deployed to Production 26 October 2025
- From the effective date of the <u>MSATS Procedures v7</u>, 26 October 2025, all participants impacted by the B2M Procedural change will be required to implement r46

NEM B2M

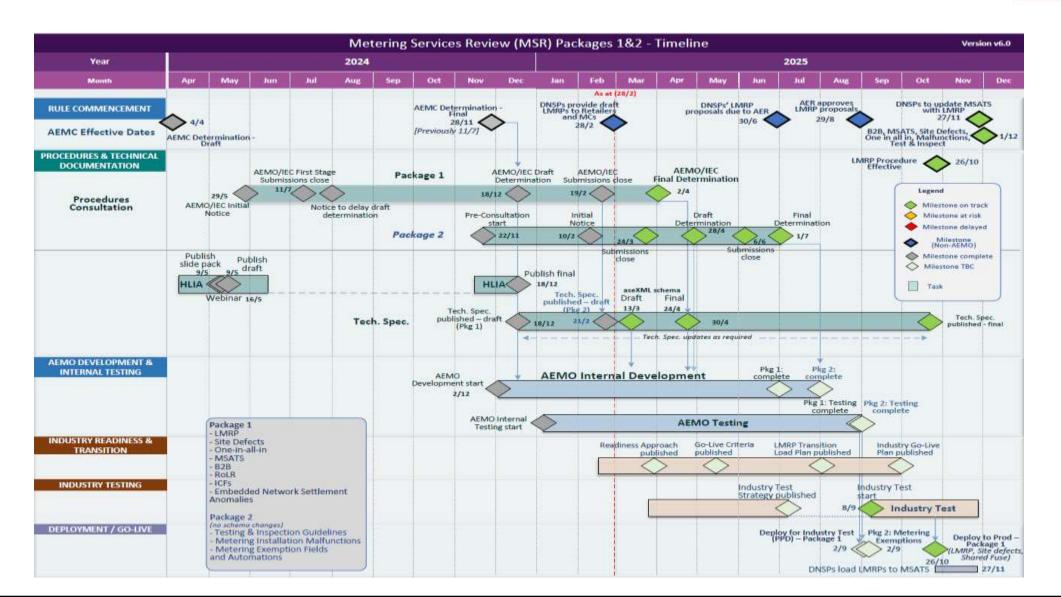
- o r46 will become the current/latest schema for B2M transactions
- o r44 will become superseded
- o r43 will no longer be supported
- Moving to r46 will allow Participants to capture changes to the LMRP value set via BUT as per <u>MSATS Procedures v7</u>
- B2M CRs referencing <u>MSATS Procedures v7.1</u> aseXML elements prior to 1 December 2025 will fail validation in MSATS

NEM B2B

- o r46 will become the current/latest schema for B2B transactions
- r43 will become superseded
- o Transforms for r41 will no longer be supported
- Prior to 1 December 2025 Participants can send r46 transactions with <u>B2B Procedures v3.9</u> elements only if supported under bilateral agreement

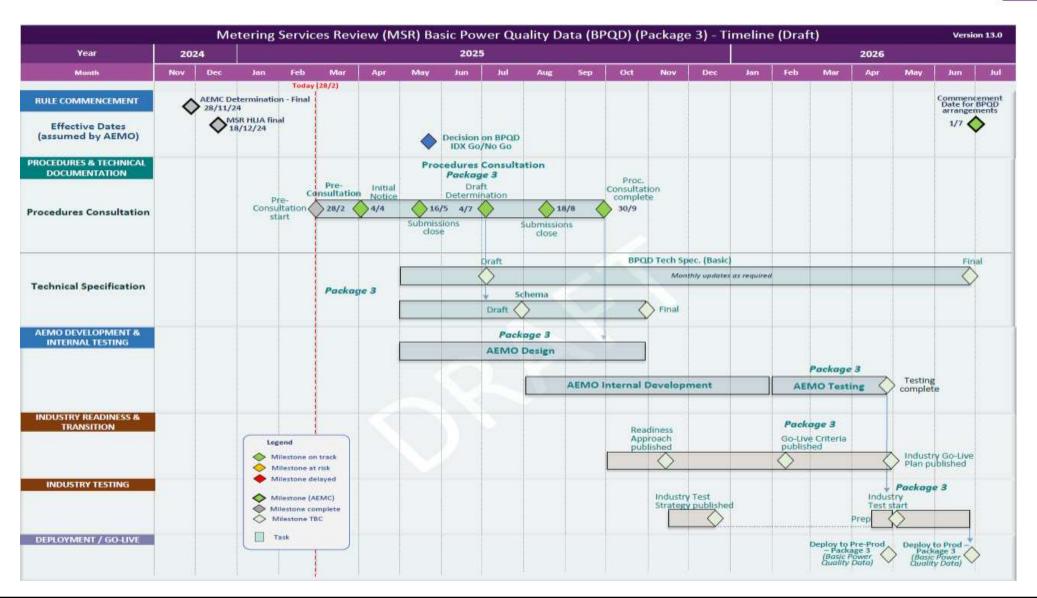
Metering Services Review Implementation Milestones





Metering Services Review Implementation Milestones PQD







8. December 2025 Release



Improving Security Frameworks (ISF) for the Energy Transition



Alice Michener





Activities currently underway:

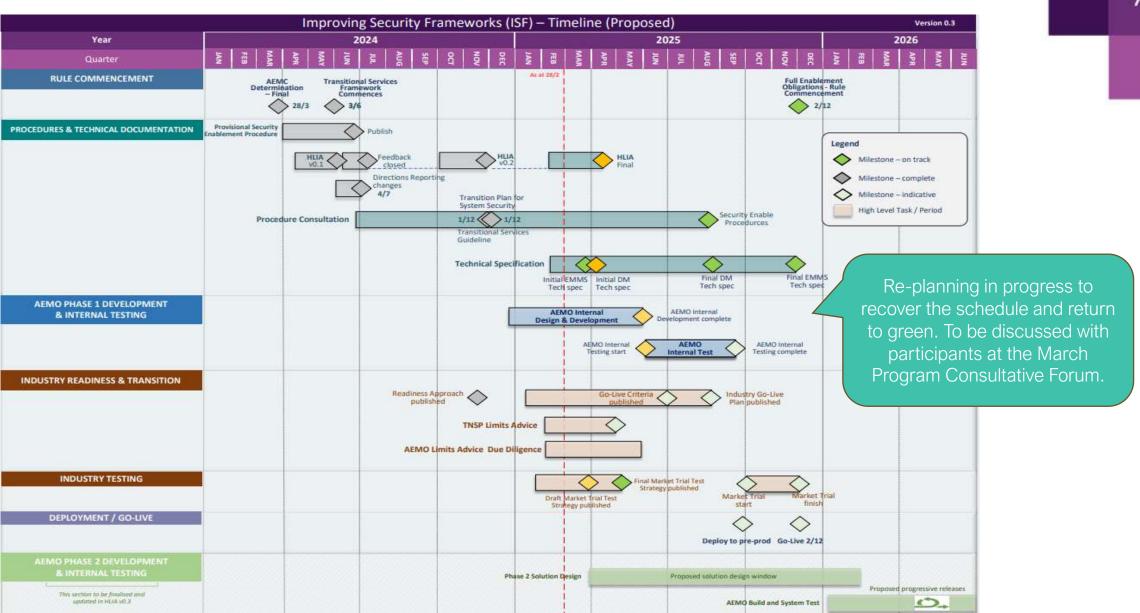
- AEMO are currently focussed on preparing for the upcoming consultation on its new Security Enablement Procedure and associated updates to existing procedures
- Concurrently, AEMO are progressing with internal design and development

Implementation complexity & compressed timelines:

- Re-planning and prioritisation of effort are in progress to recover the schedule and return to green.
- Reported risk of compressed development timeframes and delivery complexity remains. External
 milestones for Initial tech spec and Draft market trial strategy milestones are amber reflecting continued
 risk to AEMO's development of its scheduling solution and industry readiness activities for contracted
 providers of system security. Coordination is underway between AEMO and TNSP's to support mitigation
 of implementation risks.
- The overall status remains red until the re-plan of activities have been finalised and planned actions to recover the schedule are progressed. AEMO's approach to these activities have the minimisation of market implementation impact at the forefront.

ISF Timeline





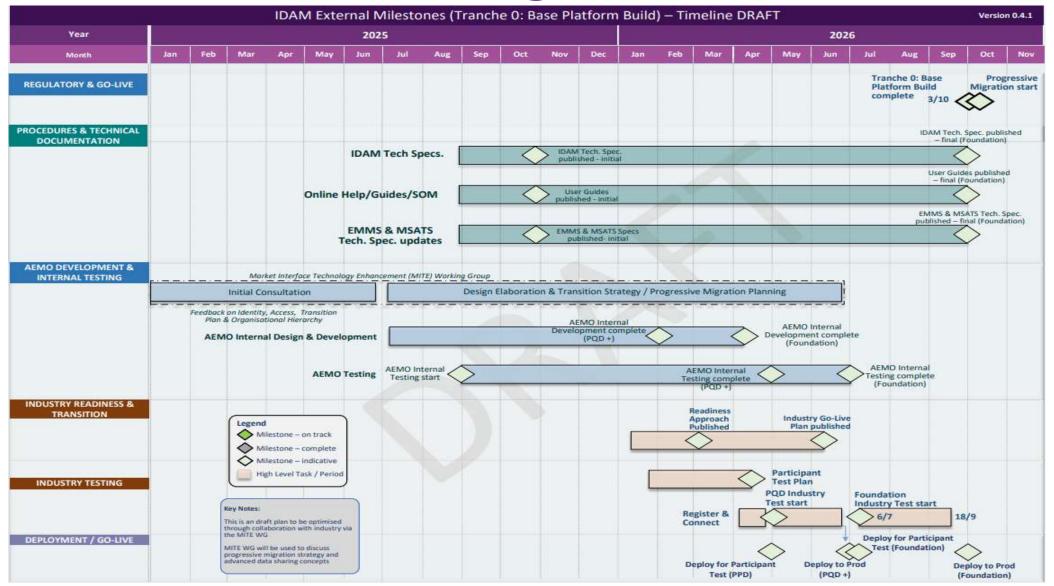


9. IDAM & IDX Draft Implementation Scheuldes



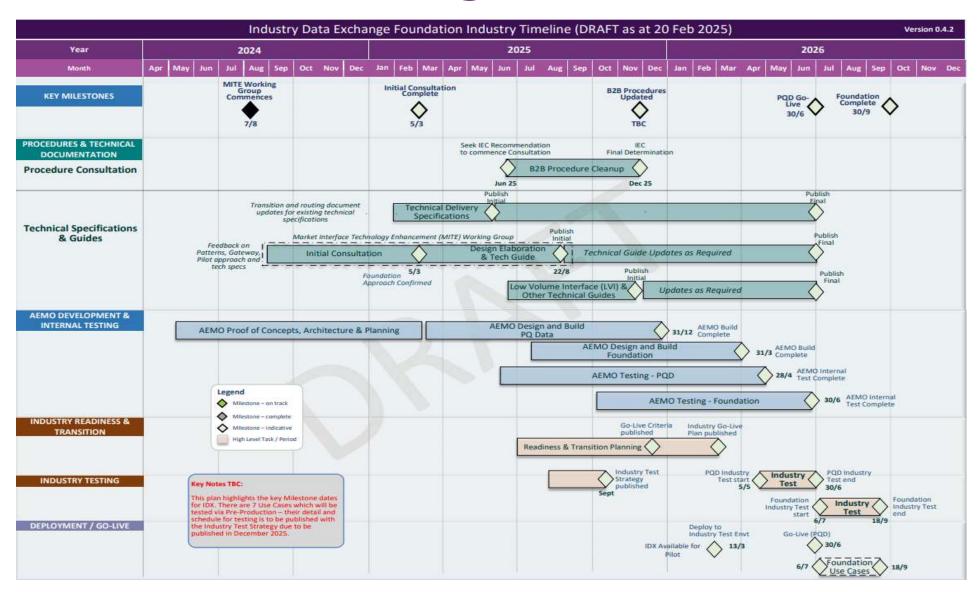


IDAM Plan on a Page





IDX Plan on a Page









Flexible Trading Arrangements (FTA)

For Noting



Flexible Trading Arrangements



Key changes from the Draft Rule to the Final Rule are:

- Introduction of an 'NMI Service Provider' role, which establishes and maintains a SSP NMI
- Introduction of Type 8A and Type 8B metering types:
 - Type 8A metering installation can be a secondary settlement point for a large or a primary connection point for a Large CER asset.
 - Type 8B metering installation can be a secondary settlement point for a small customer
- Earlier effective date for Type 9 metering installations

Key dates:

- Rule Effective Dates
 - 31 May 2026 for Type 9 metering installations
 - 1 November 2026 for remainder of the reform
- AEMO Workshop Dates:
 - DNSPs 23 October 2024 (Completed)
 - Retailers 7 November 2024 (Completed)
 - MCs/MPs/MDPs 20 November 2024 (Completed)
 - End to End industry discussion 18 February 2025 (Completed)



Workshop Key Takeaways To-date

DNSP Focus Group Session

- Discussed what options would allow the DNSP to find SSP(s) in their network
- Discussed options for DNSPs to receive metering data and standing data from SSP where they are not a role holder in MSATS
 - Option 1 New Participant Role
 - Option 2 New Standing Data attribute

Retailer Focus Group Session

- Provided an overview of energy allocation for SSP and retailer data reconciliation
- Discussed NMI discovery proposal and new attributes of Service Type and IsPremises
- Discussed new obligations for retailers of Metering Installation Malfunctions



Workshop Key Takeaways To-date

MCs/MPs/MDPs

- Discussed accreditation requirements for MP and MDP and accreditation timeframes
- Proposed a change to the Metering Installation Type Codes highlighted in the in the Final HLIA
- Discussed the requirements of the Rule for MDPs to flag to AEMO outages and disconnections at premises connection point





Consultation dates

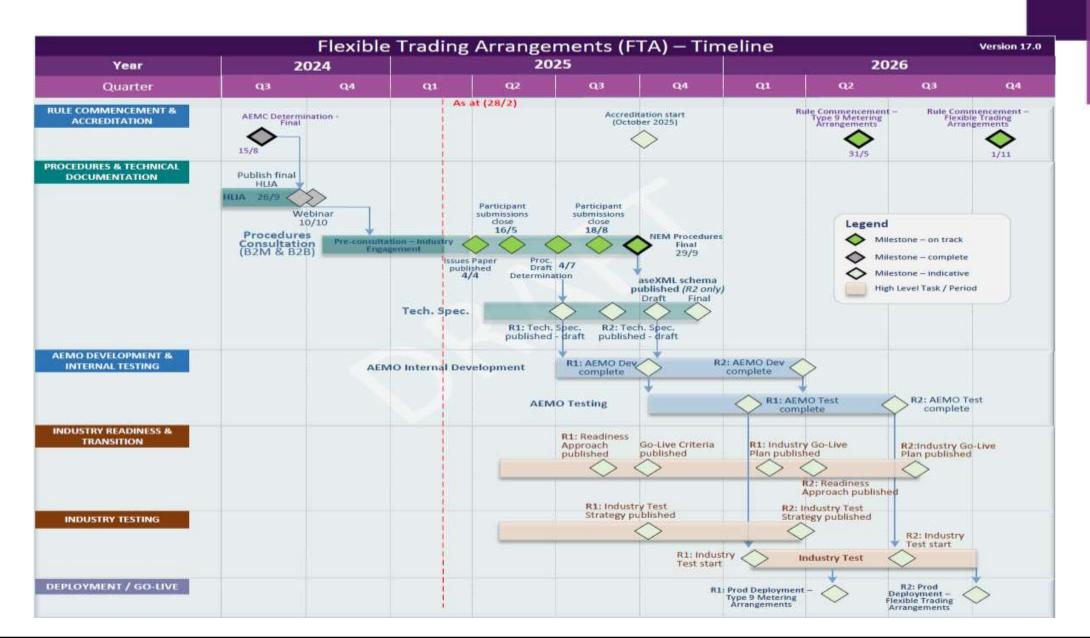
- April 2025: Issues Paper
- September 2025: Final Determination

Rule Effective Dates

- 31 May 2026 for Type 9 metering installations
- 1 November 2026 for remainder of the reform

Flexible Trading Arrangements





Project Energy Connect Market Integration (PEC-MI)



For Noting





PEC-MI March update

- <u>AEMO's Draft HLIA</u> was published 19 December 2024 and the opportunity to provide feedback has now closed.
- Next steps include commencing consultation with stakeholders on Automated Negative Residue Management procedure.
- Final Rule Determination by the AEMC is due 27 March 2025.

PEC-MI Indicative High-level Timeline





Q3 2026 PEC MI Rule commences

QUICK REFERENCES

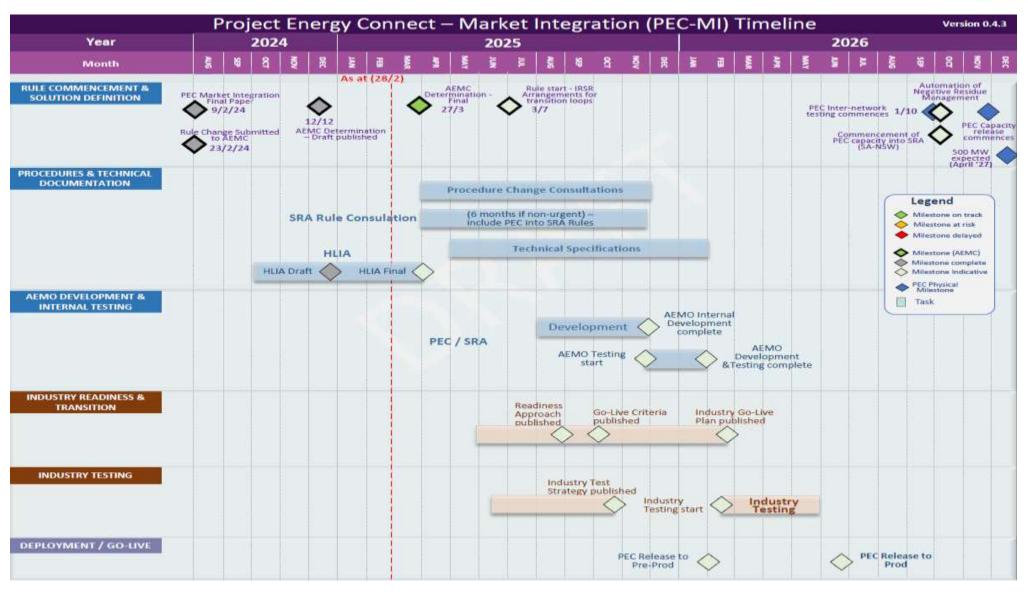
AEMO PEC-MI webpag
PEC Industry webpag
AEMC Rule Change

NB

PEC 2 will be completed and in service by the June quarter of 2026 (Inter-network testing to commence 1 May 2026)

Project Energy Connect Market Integration (PEC-MI)







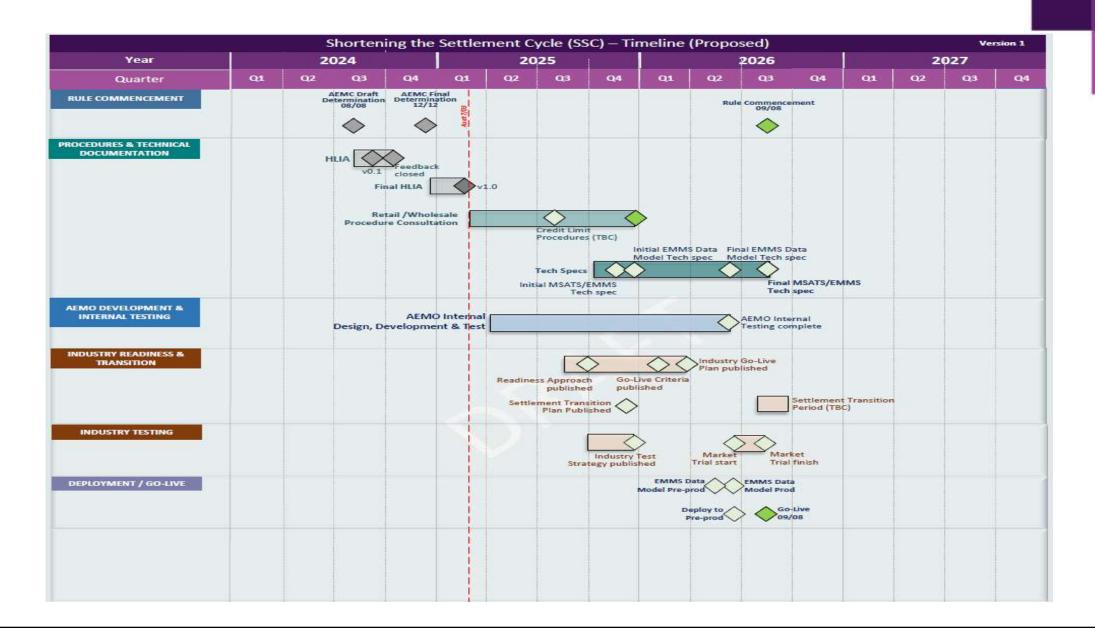
Shortening the Settlement Cycle

For Noting



SSC Timeline







Shortening the Settlement Cycle Update

- AEMC Final Rule was published on 12 December
- The HLIA was published 12 February reflecting the Final Determination pathway and participant feedback
- Retail and Wholesale consultations to commence from May 2025
- The Final Rule will take effect 9 August 2026 with the transition to the shorter settlement to be complete by 17 October 2026
- AEMO is required under the transitional rules to work with industry to develop a transition plan/calendar by 5 December 2025



Integrating Price-Responsive Resources into the NEM (IPRR)

Noting



IPRR update



Policy process to date



The IPRR high-level implementation assessment (HLIA) provides an indicative and preliminary view to participants on how the IPRR rule may be implemented by AEMO.

For more information visit:



nemreform@aemo.com.au









IPRR high-level implementation assessment

- The IPRR project team thanks the four stakeholders who provided feedback on the HLIA version based on IPRR final rule.
- Around half the feedback is better considered in the detailed VSR Guidelines
 development process and has been moved to this consultation stream.
- Changes made to the HLIA resulting from the feedback will be communicated when the final HLIA is published (Thu 20 Mar):
 - A summary of changes will be provided via email
 - A marked-up version of the final HLIA will be published alongside the clean version.
- NOTE: The final HLIA will only be updated if there is a material change in implementation approach.



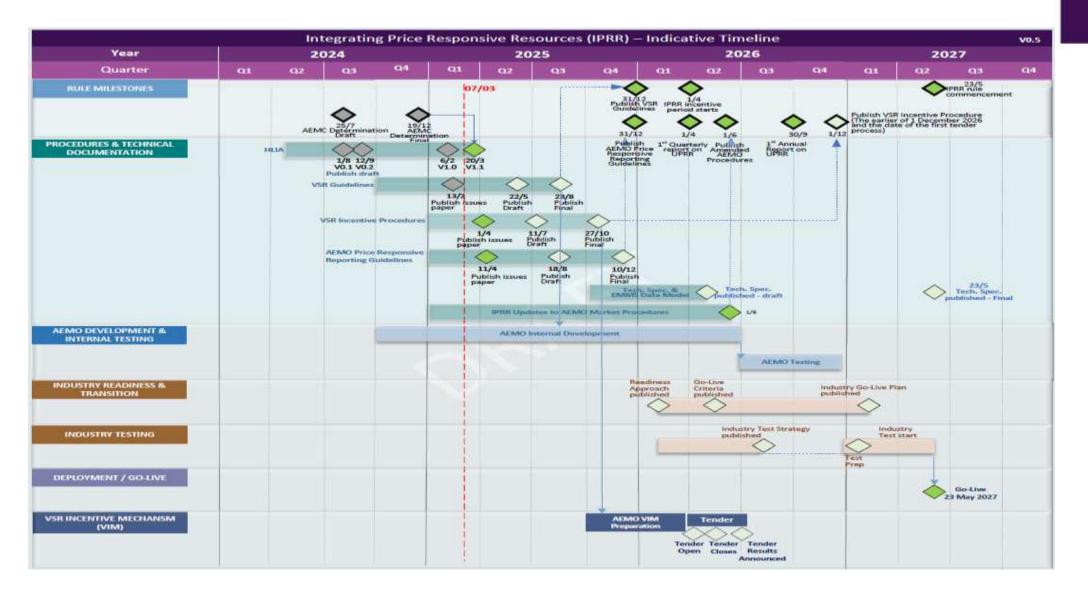
IPRR upcoming consultations

- Upcoming engagement on major new IPRR documents that will likely be of interest to the Implementation Forum is set out in the table.
- AEMO is also engaging with the EWCF/ERCF on the IPRR procedure change plan, having identified around 32 existing documents that require varying levels of changes to be compliant with the IPRR rule.

ITEM	PURPOSE	STAGE	PUBLISH DATE	PUBLIC FORUM	FEEDBACK DUE
VSR GUIDELINES	Establishes the technical and operational characteristics of VSRs.	Issues paper	Thu 20 Feb	Fri 28 Feb	Thu 20 Mar
PRICE RESPONSIVE REPORTING GUIDELINES	Establishes how AEMO will meet its annual reporting obligations on unscheduled price-responsive resources, and the information and metrics that AEMO will include in its quarterly reporting on unscheduled price responsive resources.	Issues paper	Fri 11 Apr (TBC)	TBC	June 2025 (TBC)
VSR INCENTIVE PROCEDURE	Specifies a range of matters to support operation of the VSR incentive mechanism / "participation payments".	Issues paper	Tue 01 Apr	Tue 04 Mar (Complete)	Fri 02 May

IPRR PoaP







11. Stakeholder Engagement

Upcoming Engagements



Engagement	Date	Time (AEDT)	
Improving Security Frameworks (ISF) Working Group	21 March	1:00pm - 2:00pm	
Electricity Retail Consultative Forum	24 March	10:30am – 12:30pm	
NEM Reform Industry Testing Working Group	27 March	10:00am – 11:00am	
NEM Reform Program Consultative Forum	27 March	1:00pm – 3:00pm	
NEM Reform Electricity Wholesale Consultative Forum	8 April	1:00pm – 3:00pm	
NEM Reform Implementation Forum	15 April	3:00pm – 5:00pm	
Improving Security Frameworks (ISF) – Security Enablement Procedure	10 April (TBC)	TBC	









12. General Questions & Other Business



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.