

NEM Reform Program Consultative Forum

Meeting #12 11 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.





							at a second	
#	Time	Topic	Presenter	#	Time	Topic	Presenter	
1	1:00-1:05pm	Welcome	Peter Carruthers	7	N/A	Noting – Commencement Updates November: CDR	N/A - Taken as read	
2	1:05-1:10pm	Actions & Feedback from Previous Meeting	David Reynolds			March: Metering Exemptions		
		Weeting		8	2:15-2:20pm	Foundational & Strategic Initiatives	Ulrika Lindholm & Andrew	
3	1:10-1:25pm	Program & Release Update	Rowena Leung / Jim			IDX IDAM PC	Bell	
			Agelopoulos	9	N/A	NEM Reform Forums Update	N/A - Taken as read	
4	1:25-1:45pm	SpotlightOctober 2023: 5MLPOctober 2023: MT PASA	Meghan Bibby Chris Muffett	10	2:20-2:25pm	NEM Reform Implementation Roadmap Update	Lance Brooks	
		October 2023: FFR	Carla Ziser	11	2:25-2:30pm	Upcoming Engagements		
5	1:45-1:55pm	June 2024 – IESS Update	Luke Barlow			Fee Consultation UpdateGeneral Stakeholder briefing &	Lance Brooks David Reynolds	
6	1:55-2:15pm	June 2025 – FPP Update	Oliver Derum			Roadmap briefing		
				12	2:30-3:00pm	General Questions and Other Business	Peter Carruthers	

Appendix A:

Competition law meeting protocol

"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





(Item = Meeting # - Agenda # - Reference)

Item	Topic	Action	Responsible	Status
11.3.0.1	Program & Release Update	AEMO to update the Impacted Stakeholders - CDR LCCD (1030/40 & 5056/57) and Metering Exemptions (CR5101) changes to Change Requests & Schema changes DNSPs that are affected under the program and release slide.	AEMO	Closed
11.5.0.1	June 2024 – IESS Update	AEMO to confirm if SGA's currently on 2 NMIs for generation and load will need to transitioned to 1 NMI?	AEMO	Ongoing
11.5.0.2	June 2024 – IESS Update	AEMO to confirm if the EMMS Tech spec Draft and data model documents labels are correct.	AEMO	Closed
11.5.0.3	June 2024 – IESS Update	AEMO to confirm if another data model document will be published that covers submission changes?	AEMO	Closed
11.5.0.4	Industry Risk Register	Participants to provide feedback on the industry risk register. AEMO to incorporate feedback into risk register.	Industry Participants / AEMO	Ongoing
11.5.0.5	Milestones	AEMO to include table of milestones, including dates, to support POAP view of in-flight initiatives	AEMO	Closed - Draft included



3. Program & Release Update

Program Update

Overall program status is amber. Good progress made in the following areas.

- > **5MLP:** Successful deployment on 1 October 2023
- FFR: On track for 9 October Go-Live, and Market Commencement 9 October 2023
- > MT PASA: On Track for 4 and 9 October 2023 Go-Lives

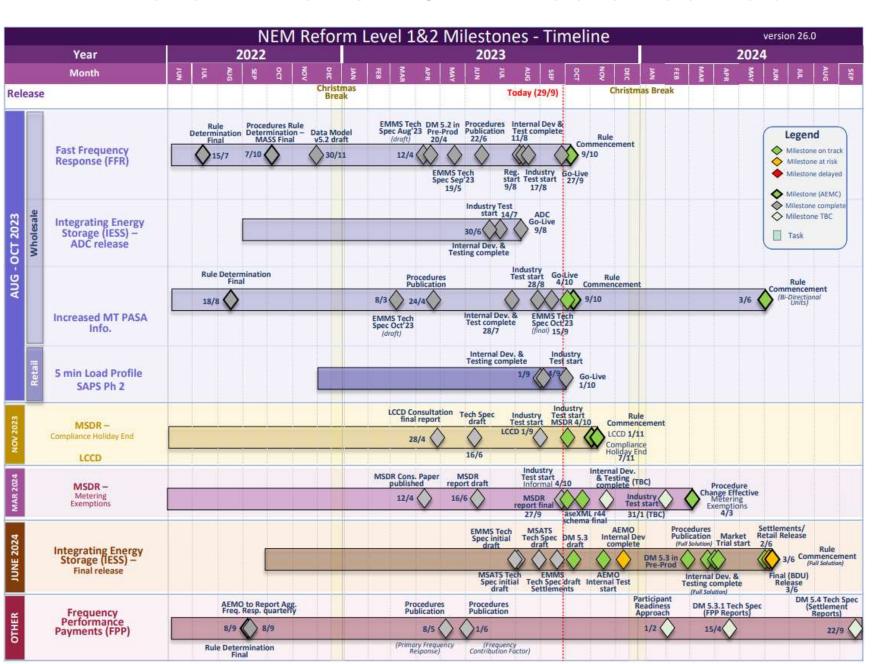
Key areas receiving management attention:

- > IESS June 24: On schedule. Overall amber remains due to tight development and testing schedules.
- > IDAM/IDX/PC: Business Case preparation work continues. Robust estimates key challenge.
- ➤ MSDR: (Metering exemptions) Now tracking green in line with reschedule March 24 go live.

Release	Initiatives	Previous Status	Current status	Key Points	Impacted Stakeholders
	Fast Frequency Response			Tracking Green on Digital Application delivery. Participant offers in place to meet initial requirement for 9 October market start.	Generators, Market Customers
OCT-23	5 Minute load profile			Project went live on 1 October 2023.	Market Customers / FRMP
	Increased MT PASA Information			MT PASA Rule commencement on track for 9 October 2023. Updated offer interfaces go-live on 4 October 2023	Scheduled Generators
NOV-23	MSDR Compliance			MSDR changes (Unstructured address and compliance holiday end for Meter Model) on track for November 2023	Retailers, MC and MP/MDP
NOV-23	CDR (LCCD)			Project progressing to schedule. Industry Prod deployment completed on 13 September 2023.	FRMPs
MAR-24	Metering Exemptions (MSDR)			Re-baselined with new schedule.Rescheduled to 3 March, includes schema update. Early release (to pre-prod) of APIs to support participant development,	Retailers, MC and MP/MDP
JUN-24	Integrating Energy Storage Systems [Final]			Overall IESS June 2024 tracking on schedule. Amber status due to pressures on development and system test schedule. Additionally overall Schedule is tight for BDU end to end delivery.	IRPs, NSPs, FRMP, MP/MDP, Vendors
JUN-25	Frequency Performance Payments			Project progressing to schedule.	Generators, Market Customers



NEM Reform Level 1&2 Milestones PoaP





Key call outs:

- FFR Project full solution was successfully deployed into Production, Rule Commencement is due on 9/10
- The MT PASA Industry Testing completed on 28/9. The new interfaces will be active in Production from 4/10 and the Reports from 9/10. Rule commences on 9/10.
- 5MLP Go-Live was successfully achieved on 1/10.
- SAPS Phase 2 release (RERT Reports & Exception Logging) was successfully achieved on 1/10
- The MSDR Metering Exemptions final consultation report was published on 27/9. Internal development and testing of the r44 schema is in progress and likely to complete by mid-Nov.
- The LCCD Rule Commencement on track for 1/11/23.
 Industry Testing has been in progress from 1/9 and due to complete by 27/10.
- MSDR is due to start Industry Testing from 4/10. The Compliance Holiday End Rule commencement is on 7/11.
- IESS Project MSATS and EMMS Tech spec draft versions have been published. The Data Model 5.3 draft is due on 9/10. Internal Development and Testing continues to be on track.



4. Spotlight



October 2023 5MLP

Meghan Bibby

Milestone Review: 5MLP

- 1 Oct 2023: Successful production deployment, adjusted Five Minute Load Profile (5MLP) formula implemented
 - · Contingency not needed
- Today is final PCF 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 30minute 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.

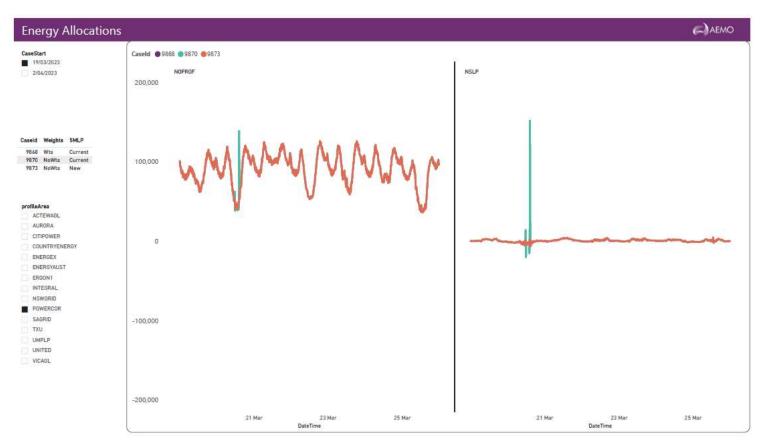








The change in methodology will directly impact profiling of 15-minute and 30-minute metering data, where negative 5MLP values exist. The profiled 15-minute and 30-minute metering data has a downstream impact on the NSLP and therefore has an impact on the profiling of basic metering data to remove spikes.





October 2023 MT PASA

Chris Muffett

Go-live criteria management: Industry checkpoint for MT PASA release



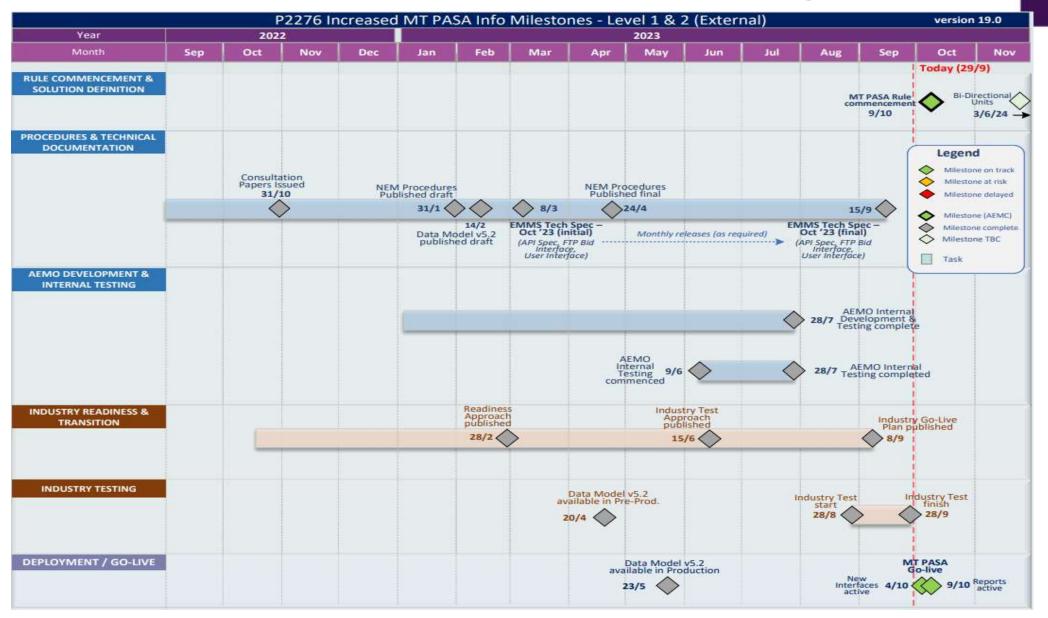
INDUSTRY CHECKPOINT PURPOSE:

To provide assurance of implementation/rule commencement preparations ahead of the industry test period, allowing time for finalising AEMO's and participants' business preparations.

INITIATIVE	INCREASED MT PASA INFORMATION (04 and 09 Oct 2023): Improve the quality and transparency of information for future availability of generators							
CRITERIA	DESCRIPTION	STATUS (as at 2/10): On Track for Go Live						
Go-live criteria	 AEMO solution tested in-line with requirements for: Enabling Participants to include "unit status" and "unit recall time" in bidding for MT PASA Reflecting updated offers in NEM Reports AEMO business ready to support MT PASA 	 Industry Testing completed – 0 Open Issues Deployment scheduled 4/10 All business readiness preparations are complete or on target for completion for 4th and 9th October commencement. 						
	Participants obligated to provide MT PASA offers including additional information. Participant readiness activity is not a pre-requisite for go-live.	17 Participants submitted files during Industry test 200+ files successfully processed						
CONTINGENCY	AEMO to identify new committed readiness date and communicate to the AER	No current indication that contingency will be needed.						

MT PASA Milestones and progress





MT PASA External Milestones



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)	МТР	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)	МТР	18-Aug-2023	15-Sep-2023		Confirmed	Monthly releases planned as required
Level 2	MTP-212	Industry Test finish	МТР	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	Green	Confirmed	
Level 2	MTP-215	MT PASA Go-Live (Reports Active)	MTP	9-Oct-2023	9-Oct-2023	Green	Confirmed	
Level 1	MTP-107	MT PASA Rule Commencement	MTP	9-Oct-2023	9-Oct-2023	Green	Confirmed	



October 2023 FFR Update

Carla Ziser



Fast Frequency Response Go-Live

for market commencement on 9 October

• Go Live criteria below with Status checkpoint as at 2/10:

INITIATIVE	FAST FREQUENCY RESPONSE – Market Start (09 October 2023): Eligible providers can register to participate in VF FCAS	Status As at 2/Oct Solution and Business Readiness Green, Market Readiness Green
CRITERIA	DESCRIPTION	
Go-live criteria	 Solution readiness: AEMO solution tested in-line with requirements and available for Industry Test – No major outstanding Defects without remediation AEMO Business Readiness: AEMO business ready to support VF FCAS market commencement from Market Readiness: Sufficient participants registered to provide service 	 All Solution components deployed to production Industry Test complete - no outstanding issues AEMO business activities scheduled and on track Registered participants in Production Market Start assessment 3/10 to confirm available requirements
	Optional participation for interested, eligible providers i.e. participant readiness activity is not a pre-requisite for go-live.	 12+ facilities participants utilised Industry testing Settlement reports incorporating FFR distributed, no issues raised
CONTINGENCY	Contingency plans established in consultation with Implementation Forum. AEMO Solution and Business Readiness criteria are green, meaning associated contingency actions not required. Market Readiness criteria to be assessed, if not met then service introduction will be deferred or transitioned.	 No current indication contingency will be required Final Assessment of Market Readiness based on production 7day pre-dispatch and communicated 3/10



Market readiness criteria met

- Commencement of market operations was confirmed on 3rd October, after AEMO determined that both criteria (capacity registered and committed) have been met to commence market operations.
- On 9th October the two-week commissioning period commences, with the purpose of establishing market operations and allowing AEMO to respond if issues arise.

110109 GENERAL NOTICE | # 03/10/2023 11:26:00 AM

Fast Frequency Response Market Start - 9th October 2023

AEMO ELECTRICITY MARKET NOTICE

AEMO has reviewed the capacity registered and committed for Very Fast FCAS market participation and has determined that both criteria have been met to commence market operations on Monday 9 October 2023 at 1300hrs AEST.

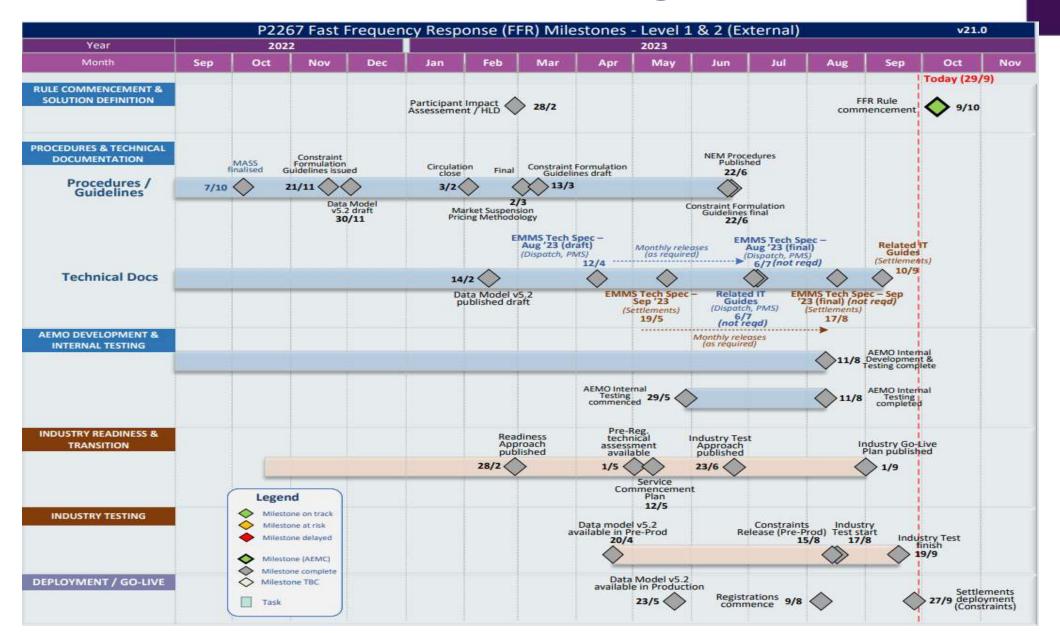
For information on the Fast Frequency Response (FFR) initiative please visit the website at: https://www.aemo.com.au/initiatives/major-programs/fast-frequency-response

Ben Blake AEMO Operations



FFR Milestones and progress





FFR External Milestones as at 3/10/2023

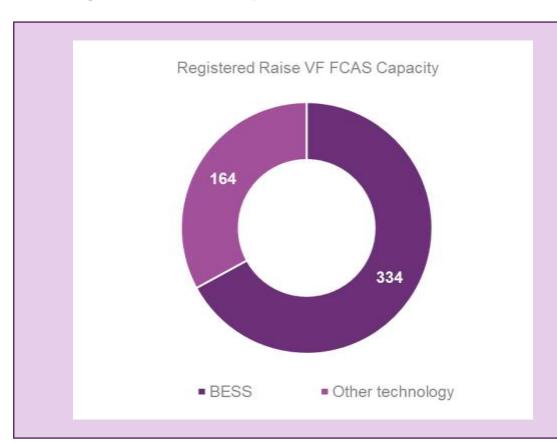


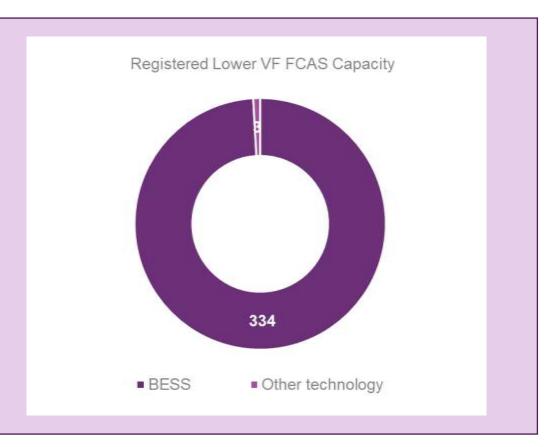
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Level	Milestone ID	Milestone	Project	Target Date	Expected Date	RAG	Tentative / Confirmed	Comments	
evel 1	FFR-101	Rule Determination Published - Draft (AEMC)	FFR	22-Jul-2022	22-Jul-2022		Confirmed		
Level 1	FFR-102	Rule Determination Published - Final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



VF FCAS registered capacity

- The very fast raise and very fast lower markets commenced at 1300hrs market time (AEST)
- Registered capacity as at 10th October 2023:



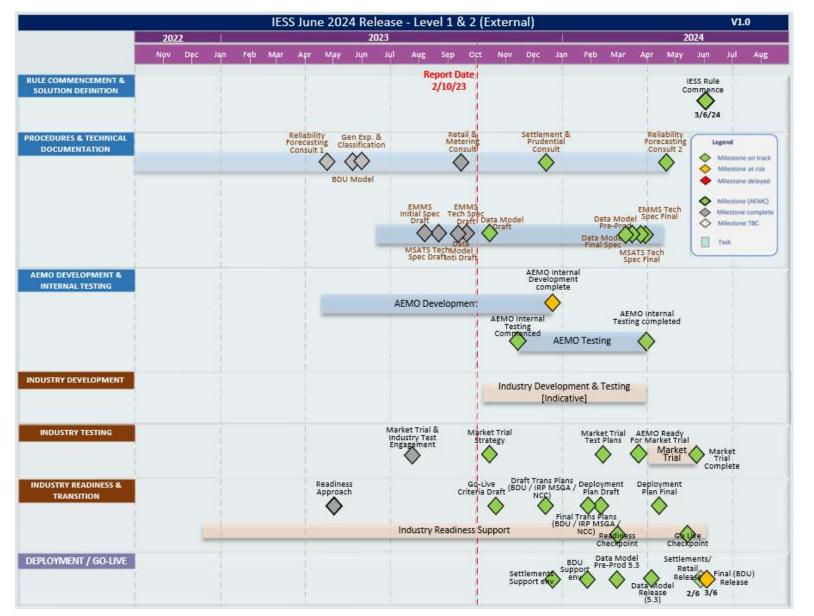




5. June 2024 - IESS Update

June 2024 - IESS Final Release





RELEASE COMMENTARY

- 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.
- Procedures consultation in progress via EWCF/ ERCF* and on track.
- AEMO development and internal testing completion milestone rated AMBER. Mitigations being progressed to maintain critical path.
- <u>Draft EMMS tech spec</u> and draft <u>EMMS tech spec Data Model v5.3</u> published
- Draft IESS Industry test and market trial strategy released for comment.
- Draft IESS Go Live Criteria discussed in Implementation Forum (26/09).

^{*}Electricity wholesale / retail consultative forums

IESS External Milestones as at 2/10/23

				•			
Level	Milestone ID	Milestone	Target Date	Expected Date	RAG	Tentative / Confirmed	Comments
evel 1		AEMC Final Determination Published (Integrating energy storage syste into the NEM)	ems 2-Dec-2021	2-Dec-2021			
evel 2		IESS High level Design final	7-Jul-2022	7-Jul-2022			
	IES-210	Reliability Forecasting Consultation 1	28-Apr-2023	28-Apr-2023			
evel 1		BDU Model Finalised	31-May-2023	31-May-2023			
evel 2	IES-211	Guide to Gen. Exp. & Classification - Final documents published	1-Jun-2023	1-Jun-2023			
		MSATS Technical Specification draft available	7-Aug-2023	23-Aug-2023			
vel 2		EMMS Data Model 5.3 specification - Initial Draft	11-Sep-2023	11-Sep-2023			
		EMMS June 24 Technical Specification (Draft)	18-Sep-2023	18-Sep-2023			
	IES-213	Retail Metering Procedures Final Published	18-Sep-2023	18-Sep-2023			
		Industry Test and Market Trials Strategy Draft published	22-Sep-2023	22-Sep-2023			
		EMMS Data Model 5.3 specification - Draft	9-Oct-2023		Green	Confirmed	
		Industry Test and Market Trials Strategy complete	17-Oct-2023		Green	Confirmed	
vel 2		Go-Live Criteria draft/establish	30-Oct-2023		Green	Confirmed	
vel 2		EMMS Data Model 5.3 draft specification (v0.3) available	13-Nov-2023		Green	Confirmed	
		AEMO Internal Testing commenced	20-Nov-2023		Green	Confirmed	
		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		Green	Confirmed	
		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	
vel 1		Initiative Readiness Checkpoint	1-Mar-2024		Green	Confirmed	
vel 1		EMMS Data Model 5.3 final specification available	12-Mar-2024		Green	Confirmed	
	IES-219	EMMS Data Model 5.3 Released to Production	27-Mar-2024		Green	Confirmed	
	IES-107	AEMO Internal Development & Testing complete	28-Mar-2024		Green	Confirmed	
		AEMO Ready for Market Trial	2-Apr-2024		Green	Confirmed	
vel 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	
vel 1	IES-214	Reliability Forecasting Consultation finalised	12-Apr-2024		Green	Confirmed	
vel 2	.20 2	Settlement Certification complete	19-Apr-2024		Green	Confirmed	
vel 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	
evel 2	120 220	Rule Commencement Date - Settlements [NECR]	2-Jun-2024		Green	Confirmed	
	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	GOIITOLY
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June 2024: Integrating Energy Storage Systems



Key Date(s)	 Settlements / NECR go-live Sun 02 Jun 2024 IRP/BDU go-live Mon 03 Jun 2024
Affected stakeholders	 Changes to settlement data tables and non-energy cost recovery framework (NECR): Financially responsible market participants Introduction of IRP participant type and bi-directional unit (BDU) bidding, scheduling and participation: BDU participants, SGAs, bidding system vendors/developers
Industry testing anticipated	Market trial and industry testing
Overall status	AMBER: On schedule. Overall amber remains due to tight development and testing schedules.

Procedures	Technical documentation	AEMO development & internal testing	Industry readiness & transition	Industry testing	Deployment & go-live
Current procedure consultations: Prudentials: Credit Limit Procedures - Draft paper 20 Oct 2023, Subs due 20 Nov 2023 Electricity Market documents (#1): Subs due 29 Sep 2023 Settlements: NEM Settlement Estimates Policy - Submissions due 20 Oct 2023 Upcoming procedure consultations Electricity Market documents (#2): Oct/Nov 2023 (TBC)	Changes to: MSATS technical specification EMMS technical specification MMS Data model Milestones for initial, draft and final documentation confirmed (see project schedule). Updates to Tech Specs published monthly as required for identified changes	Development in progress, with schedule pressure on interim internal milestones across key application streams Internal AEMO testing commences Nov 2023, with planning and preparation in progress.	IESS go-live criteria in development. Discussed with Implementation Forum Tue 26 Sep, with feedback requested by 15 Oct ahead of milestone 30 October IESS transition plans to be developed in conjunction with the Implementation Forum and working groups Oct to Dec 2023, and finalised in early 2024.	 Draft IESS Market Trial Strategy was released for comment Fri 22 Sep 2023. Addresses timing, duration and scope. IESS Market Trial plan/s to be developed in conjunction with the ITWG by mid-Feb 2024. Program support via ITWG and regular Q&A sessions. 	Deployment plans: • Draft Feb 2024 • Final Apr 2024

Relevant links

AEMC | IESS rule



IESS industry readiness has ramped up - 8 months until go-live!







PARTICIPANT SUPPORT ACTIVITIES UNDERWAY

- Workshops/information sessions established for both Settlements and BDU areas
- Draft technical documentation has been released
- AEMO is preparing a participant development environment to support participant development of IESS changes against "beta" versions of market systems capability

KEY AREAS OF EFFORT NEEDED FROM PARTICIPANTS

- Individual development and testing
- Provide quality, timely feedback into transition, test and go-live plans
- Respond to readiness surveys, particularly upcoming BDU survey on indicative transition timing
- Where applicable, participate in industry testing and market trial



6. June 2025 - FPP Update

June 2025: Frequency Performance Payments



FREQUENCY PERFORMANCE PAYMENTS (FPP)

Key Date(s)	Go-live June 2025;
Likely impacted stakeholders	Generators, Market Customers
Industry testing anticipated	Extended period of non-financial operation for participant validation expected, Scope/approach of Industry testing TBC

Procedures	Technical documentation	AEMO Development and Internal Testing	Industry readiness and Transition	Industry testing	Deployment and go-Live
 Final Primary Frequency Response Requirements procedure published 4 May. Final Frequency Contribution Factor Procedure published 1 June, along with the related Tuning Parameters and Input Sources document. 	Data Model Technical Specification with updates for FPP reporting – April 2024 Data Model Technical Specification with updates for FPP Settlements reporting – Sept 2024	Data integration Jun to Dec 2023 Settlements system development Jul to Dec 2024	April-Sept 2024	FPP calculation testing Dec 2024 (non-financial operation) Settlements testing April 2025	Pre-prod releases 1+2 Nov 2024 (start and end) Pre-prod releases 3+4 start and mid March 2025 Prod release end May 2025

Relevant links

AEMO | Frequency Contribution Factors page (Contains Frequency Contribution Factors Procedure and Tuning Parameters)

AEMO | Frequency Contribution Factors Procedure Consultation Page

AEMO | Frequency Performance Payments project

FPP October update



- Thank you to those who have provided feedback on the possibility of AEMO publishing pre dispatch and P5min estimates.
- Feedback so far has largely (but not exclusively) been that such estimates would not be useful to industry.
- Stakeholders do support AEMO continuing to provide a forecast of the unused regulation FCAS recovery, as we currently do for Causer Pays.
- AEMO has not yet made a final decision but expects to do so soon.
- Some information about what data AEMO will publish for each five-minute interval, and when, is available in the Frequency Contribution Factors procedure.
 - The data structure for this reporting will be outlined in the forthcoming high-level technical design document, to be published in December 2023, ahead of the full tech spec for FPP reporting in April 2024.

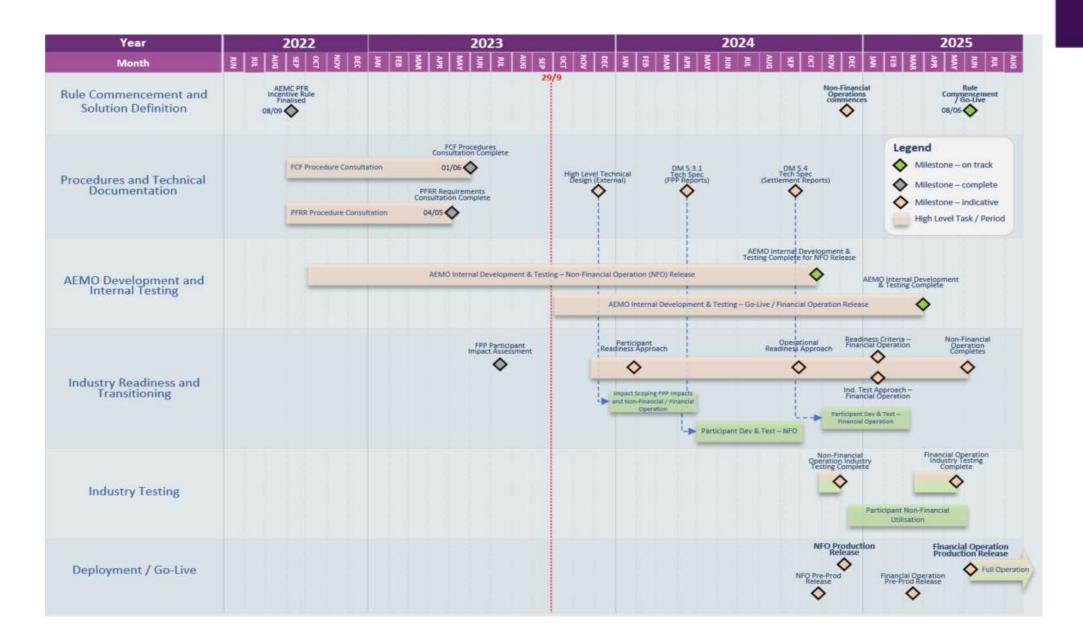
Participant impact and preparedness artefacts



Item	Current status
High-level implementation design	Complete. High level design of the FPP process, and the calculations to be made, are available in the February 2023 workshop presentations and the Frequency Contribution Factors Procedure .
High-level Technical Design (new item identified for FPP)	Pending. AEMO will publish a high-level technical design in December 2023.
Participant impact assessment	Complete. The impacts of FPP on different types of participants are outlined on slides 9-10 of this presentation .
L1/L2 milestones	Complete. See the FPP timeline included in each PCF pack.
Participant development timeline	Complete. See the FPP timeline included in each PCF pack.
Participant test support	Pending. Details to be contained in "FPP Readiness Approach" document to be developed in January 2024.
Contingency	Pending. Period of non-financial operation is noted, however AEMO is still examining where contingency can be included in the existing FPP timeline.

FPP development and testing timeline





FPP- External Milestones as at 2/10/23



Milestone	Project	Target Date	Expected Date	RAG	Tentative / Confirmed	Commentary
Rule Determination Published - Final	FPP	8-Sep-2022	8-Sep-2022		Confirmed	
AEMC PFR Incentive Rule Finalised	FPP	8-Sep-2022	8-Sep-2022		Confirmed	
CFP Initial Paper Published	FPP	31-Oct-2022	31-Oct-2022		Confirmed	
CFP First Stage Submissions received	FPP	6-Dec-2022	6-Dec-2022		Confirmed	
PFRR Initial Paper Published	FPP	6-Dec-2022	6-Dec-2022		Confirmed	
PFRR First Stage Submissions received	FPP	16-Jan-2023	16-Jan-2023		Confirmed	
CFP Draft Determination Published	FPP	7-Feb-2023	7-Feb-2023		Confirmed	
PFRR Draft Determination Published	FPP	20-Feb-2023	20-Feb-2023		Confirmed	
CFP Second Stage Submissions received	FPP	15-Mar-2023	15-Mar-2023		Confirmed	
PFRR Second Stage Submissions received	FPP	21-Mar-2023	21-Mar-2023		Confirmed	
PFRR Requirements Consultation complete	FPP	8-May-2023	8-May-2023		Confirmed	
CF Procedures Consultation complete	FPP	8-Jun-2023	1-Jun-2023		Confirmed	
NEM Procedures Published	FPP	8-Jan-2023	1-Jun-2023		Confirmed	
High Level Technical Design (External)	FPP	8-Dec-2023		Green	Confirmed	
Participant Readiness Approach	FPP	1-Feb-2024		Green	Confirmed	
AEMO Internal Testing commmenced (NFO)	FPP	3-Jul-2024		Green	Confirmed	
Data Model 5.3.1 Tech Spec (FPP Reports)	FPP	15-Apr-2024		Green	Confirmed	
Data Model 5.4 Tech Spec (Settlement Reports)	FPP	22-Sep-2024		Green	Confirmed	
AEMO Internal Testing complete (NFO)	FPP	22-Oct-2024		Green	Confirmed	
AEMO Internal Development & Testing complete (NFO)	FPP	22-Oct-2024		Green	Confirmed	
Pre-Production Release (NFO)	FPP	25-Oct-2024		Green	Confirmed	
Operational Readiness Approach complete	FPP	1-Oct-2024		Green	Confirmed	
Industry Test start (non-financial ops)	FPP	25-Oct-2024		Green	Confirmed	
Market Trial / Industry Test finish (non-financial ops)	FPP	22-Nov-2024		Green	Confirmed	
Production Release (Non-Financial Operation)	FPP	9-Dec-2024		Green	Confirmed	
Non-Financial Operations commences	FPP	9-Dec-2024		Green	Confirmed	
Industry Test Approach - Financial Operation	FPP	31-Jan-2025		Green	Tentative	
Readiness Criteria - Financial Operation	FPP	31-Jan-2025		Green	Tentative	
Pre-Production Release (Financial Operation)	FPP	15-Mar-2025		Green	Tentative	
AEMO Internal Development & Testing complete (Financial Operation)	FPP	31-Mar-2025		Green	Tentative	
Non-Financial Operation finish	FPP	30-May-2025		Green	Tentative	
FFP Project Go-Live / Rule Commencement	FPP	8-Jun-2025		Green	Confirmed	



7. Noting – Commencement updates



November 2023 CDR

For Noting





CDR, MSDR Compliance holiday

Key Date(s) Go-live November 2023			
Likely impacted stakeholders FRMP, MC, MP, DNSP, MDP			
Industry testing anticipated	Industry Testing		
Overall status	Overall On track , LCCD (CDR), MSDR Compliance Holiday completion,		

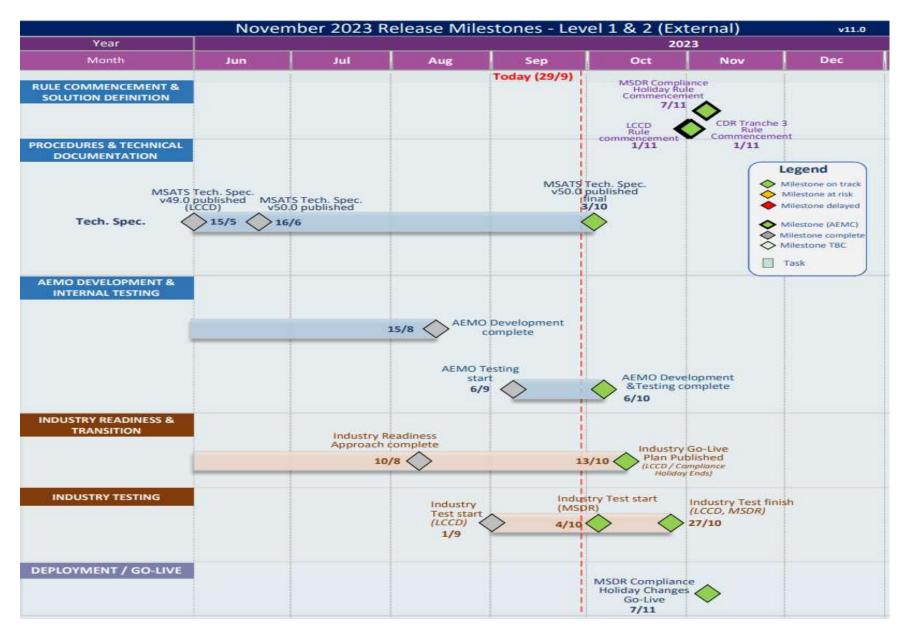
Procedures	Technical documentation	AEMO Development and Internal Testing	Industry readiness and Transition	Industry testing	Deployment and go- Live
CDR MSATS (LCCD) procedure effective date 1 November	Guide to CDR APIs available on AEMO's website: AEMO Consumer Data Right	AEMO development for CDR Complete. Development complete for MSDR fields with compliance holiday expiring 7/11.	• N/A	LCCD changes available for Industry Test from 1 September, Q&A sessions in place Pre-prod support for CDR Tranche 3 Retailers November Release Industry Testing Commences 4 Oct, Q&A Session in place	CDR MSATS LCCD population aligned to CDR Tranche 3 rule commencement. MSDR Compliance holiday expires 7th November. LCCD go-live 1 November Deployment scheduled 29th October

Relevant links

AEMO | Consumer Data Rights (CDR) MSATS Minor Amendment Proposal

November 2023 Milestones Timeline





November Retail Release External Milestones as at 2/10/2023



	Nov 2023 - Level 1 & 2 Milestones (External)								
Level	Milestone ID	Milestone	Project	Release	Target Date	Expected Date	RAG	Tentative / Confirmed	
Level 2	MSD-201	Consultation Paper Published (Meter Exemption Automation)	MSDR	November 2023	12-Apr-2023	12-Apr-2023		Confirmed	
Level 2	CDR-201	MSATS Technical Specification v49.0 published (LCCD)	CDR	November 2023	15-May-2023	15-May-2023		Confirmed	
Level 2	MSD-202	Procedures Consultation - Report published draft	MSDR	November 2023	16-Jun-2023	16-Jun-2023		Confirmed	
Level 2	MSD-203	MSATS Technical Specification v50.0 published draft	MSDR	November 2023	16-Jun-2023	16-Jun-2023		Confirmed	
Level 2	MSD-204	Industry Readiness Approach complete	MSDR	November 2023	4-Aug-2023	10-Aug-2023		Confirmed	
Level 1	CDR-101	Industry Test start (LCCD)	CDR	November 2023	1-Sep-2023	1-Sep-2023		Confirmed	
Level 2	MSD-205	AEMO Testing start	MSDR	November 2023	7-Aug-2023	6-Sep-2023		Confirmed	
Level 2	MSD-207	Procedures Consultation - Report published final	MSDR	November 2023	27-Sep-2023	27-Sep-2023		Confirmed	
Level 2	MSD-208	MSATS Techincal Specification v50.0 published final	MSDR	November 2023	29-Sep-2023		Green	Confirmed	
Level 1	MSD-108	Industry test Start- MSDR November	MSDR	November 2023	4-Oct-22023		Green	Confirmed	
Level 2	MSD-209	Industry Go-Live Plan published (LCCD / Compliance Holiday Ends)	MSDR	November 2023	13-Oct-2023	6-Oct-2023	Green	Confirmed	
Level 1	MSD-109	November Release deployment	MSDR	November 2023	29-Oct-2023		Green	Confirmed	
Level 1	CDR-102	LCCD Procedure Commencement	CDR	November 2023	1-Nov-2023		Green	Confirmed	
Level 1	CDR-103	CDR Tranche 3 Rule Commencement	CDR	November 2023	1-Nov-2023		Green	Confirmed	
Level 1	MSD-102	MSDR Compliance Holiday End Go-Live	MSDR	November 2023	7-Nov-2023		Green	Confirmed	
Level 1	MSD-103	MSDR Compliance Holiday End Rule Commencement	MSDR	November 2023	7-Nov-2023		Green	Confirmed	



March 2024 Metering Exemptions

For Noting

March 2024: Metering Exemptions



Metering Exemptions

Key Date(s)	Go-live early March 2024
Likely impacted stakeholders	FRMP, MC, MP, DNSP, MDP
Industry testing anticipated	Industry Testing
Overall status	Overall Green against March 2024 go-live date, informal Industry Testing in Progress

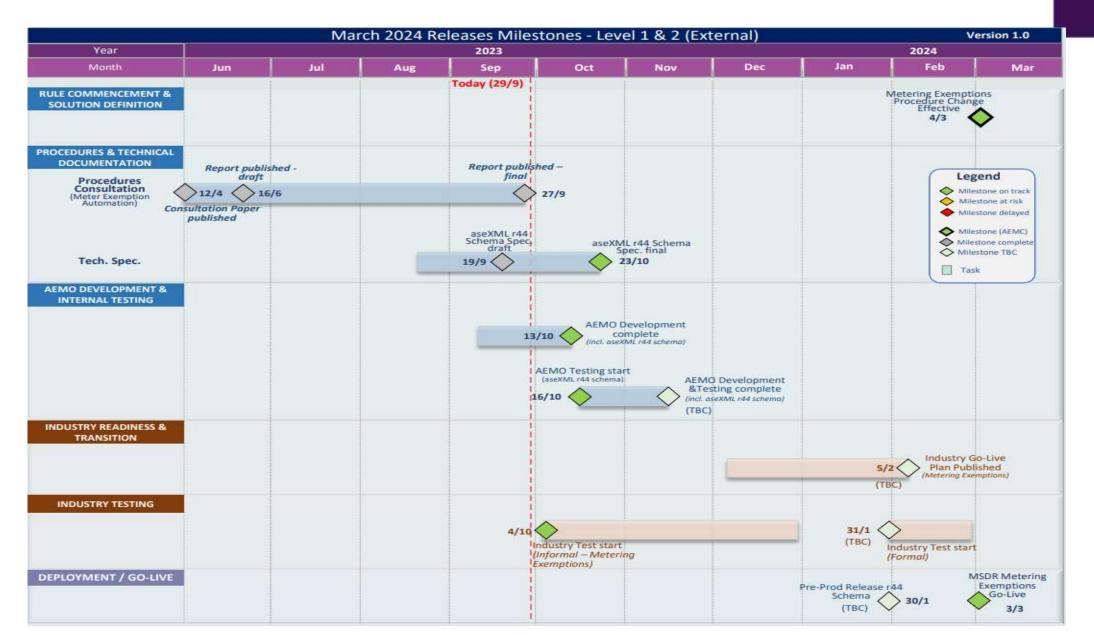
Procedures	Technical documentation	AEMO Development and Internal Testing	Industry readiness and Transition	Industry testing	Deployment and go- Live
Metering Exemptions consultation complete Final Report published 27 Sept 2023 Effective date for metering exemptions changed to 4 March 2024.	MSATS Tech Spec to support Metering Exemptions changes have been published R44 B2M aseXML Schema spec to be developed to support Metering Exemptions	Metering Exemptions will require updates to incorporate new B2M schema, API development and internal testing in progress	Transition of current exemptions are included in AEMO cutover plans Metering Exemption APIs to be deployed to pre-prod 4 October to support Industry development timeframes	Metering Exemptions Industry Test rescheduled in line with revised deployment and aseXML schema availability for 29 Jan API testing commenced 4 October.	Metering Exemptions Procedure effective date confirmed as 4 March 2024. System deployment go live on 3 March 2024.

Relevant links

<u>AEMO | Metering Installation Exemption Automation Consultation</u>

March 2024 Milestones Timeline





March Retail Release External Milestones as at 2/10/2023



	March 2024 - Level 1 & 2 Milestones (External)								
Level	Milestone ID	Milestone	Project	Release	Target Date	Expected Date	RAG	Tentative / Confirmed	Commentary
Level 2	MSD-206	aseXML r44 Schema Specification published draft	MSDR	March 2024	19-Sep-2023	19-Sep-2023		Confirmed	
Level 1	MSD-101	Industry Test start (Informal)	MSDR	March 2024	4-Oct-2023	4-Oct-2023	Green	Confirmed	
Level 2	MSD-208	AEMO Development complete (incl. aseXML r44 schema)	MSDR	March 2024	13-Oct-2023	13-Oct-2023	Green	Confirmed	
Level 2	MSD-210	AEMO Testing start (aseXML r44 Schema)	MSDR	March 2024	16-Oct-2023	16-Oct-2023	Green	Confirmed	
Level 2	MSD-211	aseXML r44 Schema Specification published final	MSDR	March 2024	23-Oct-2023	23-Oct-2023	Green	Confirmed	
Level 1	MSD-104	AEMO Development & Testing complete (incl. aseXML r44 Schema)	MSDR	March 2024	15-Nov-2023	15-Nov-2023	Green	Tentative	
Level 2	MSD-212	Pre-Production Release - aseXML r44 Schema	MSDR	March 2024	22-Nov-2023	22-Nov-2023	Green	Tentative	
Level 1	MSD-105	Industry Test start (Formal)	MSDR	March 2024	29-Jan-2024	29-Jan-2024	Green	Confirmed	
Level 2	MSD-213	Industry Go-Live Plan published (Metering Exemptions)	MSDR	March 2024	5-Feb-2024	5-Feb-2024	Green	Confirmed	
Level 1	MSD-106	MSDR Metering Exemptions Go-live	MSDR	March 2024	3-Mar-2024	3-Mar-2024	Green	Confirmed	
Level 1	MSD-107	Metering Exemptions Procedure Change Effective	MSDR	March 2024	4-Mar-2024	4-Mar-2024	Green	Confirmed	

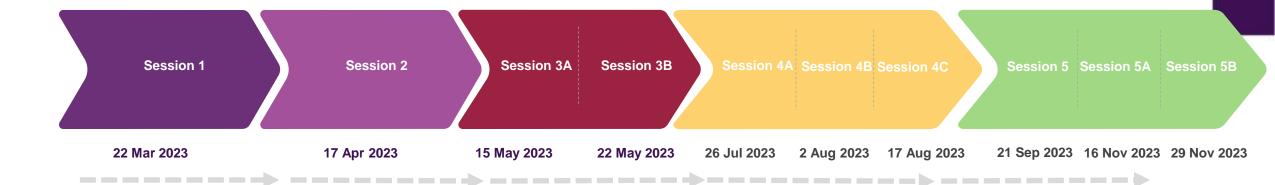


8. Foundational & Strategic Initiatives

Industry consultation update

- Preparation of business case continues.
- Final industry workshops to be scheduled for November.
- Any queries can be directed to NEMReform@aemo.com.au.





Sessio	Introduction – IDX, IDAM & PC	Discovery Workshops – IDAM and PC	Target State Discussion	Transition Strategy	Conclusions and Business Case
Agend	Introduce initiativesOutline workshop plan	Pain points and benefitsSurvey	Concept walkthroughSurvey	Transition StrategyImpacts & BenefitsSurvey	 Business case inputs Industry cost Walkthrough of draft business case Assessment and completion

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.



9. NEM Reform Forums Update

For Noting

NEM Reform Forums update



Channel	Current focus	Next meeting
Information Exchange Committee (IEC) and Business-to-Business Working Group (B2BWG)	The current NEM Reform focus is on considering and preparing for the upcoming consultation regarding B2B procedural impacts associated to the introduction of the IESS Rule.	12 October 2023
NEM Reform Electricity Wholesale Consultative Forum (EWCF)	 The current focus is on regular updates for inflight reform IESS, FFR, FPP, MT PASA, and the strategic and foundational initiatives (IDAM IDX and PC). 	17 October 2023
Electricity <u>Retail</u> Consultative Forum (ERCF)	The current NEM Reform focus is on considering retail and metering procedural impacts associated with the introduction of the IESS Rule.	23 October 2023
NEM Reform Industry Testing Working Group (ITWG)	 Focus on testing approaches for Metering exemptions IESS June Market Trial Strategy and scope 	26 October 2023
NEM Reform Implementation Forum	 Focus on 2023 / 2024 Releases – progress and implementation updates for all inflight initiatives for and 2024. November release go-live preparations Metering Exemptions delivery progress and Industry Testing IESS Go-Live Criteria IESS June Market Trial scope and participant transition support (BDU and Settlements) 	31 October 2023
NEM Reform Executive Forum	Agenda: • AEMOs Foundational & Strategic Initiatives update • Overall program delivery status and costs.	TBC - 2023

For more information and meeting papers for each of the forums, please refer to the <u>NEM Reform program</u> website.



10. NEM Reform Implementation Roadmap Update



Keeping the NEM Reform Implementation Roadmap up to date

- AEMO in collaboration with the Reform Delivery Committee (RDC), will publish Version 3 of the 'Roadmap' and supporting artefacts on 05 October 2023.
- The AEMO team extends its thanks for the collaborative effort from RDC / PCF members in helping to maintain the Roadmap.
- Initial discussion and impact assessment of incremental / material changes
- Change Register shared with RDC

RDC Collaborative Workshop (August)

RDC Meeting (August)

- Finalise change management / impact assessment
- Draft v3 Roadmap and supporting artifacts shared for RDC review and feedback

 Update to PCF on change management and impact assessment

Roadmap Published & PCF
(September)

Roadmap Published / Stakeholder Forums (October)

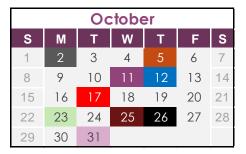
- Final v3 Roadmap and supporting artifacts published (5 OCT)
- General stakeholder forums
- NEM Reform Program
- Roadmap Update



11. Upcoming Engagements

Upcoming Engagements

For Noting

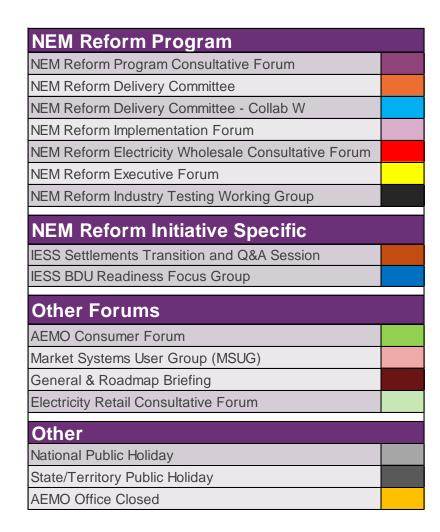




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Market Systems User Group (MSUG)

- MSUG is a technical forum focusing on technical specifications published on the IT Change and release management webpage. To receive an MSUG invitation please ask your organisation to include your email in their AEMO help desk bulletin distribution list. Tentative meeting dates are provided in technical specifications with invitations sent about one week prior to the event.
- For further information on this forum please contact AEMO support Hub via the following contact form link or email support.hub@aemo.com.au



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

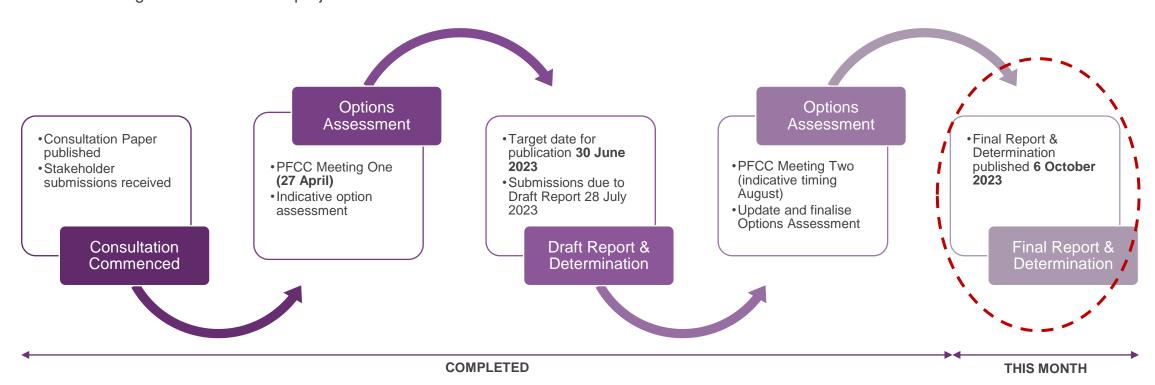


Fee Consultation Update



Participant Fee Structure for the NEM2025 Reform Program Declared NEM Project

- AEMO is set to published its Final Report and Determination (Final Report) on 06 October 2023.
- Publication of the Final Report concludes AEMO's consultation on the determination of the Participant Fee structure for the NEM2025 Reform Program declared NEM project.





General Stakeholder briefing & Roadmap briefing

General Stakeholder briefing & Roadmap briefing – <u>25 October</u>



On **25 October** AEMO is welcoming all stakeholders to a briefing on the NEM Reform Program and the upcoming release of the NEM Reform Implementation Roadmap v.3.

The briefing is set out in two sessions and all stakeholders are welcome to join either or both sessions.

Session 1: General briefing

- 25 October 1.00pm 2.00pm (AEDT)
- If you're a market participant or provide services in the NEM, and don't attend our regular forums, this is your opportunity
 to learn more about the program and how to get involved.

Session 2: NEM Reform Implementation Roadmap briefing

- 25 October 2.00pm 3.00pm (AEDT)
- Provides an overview of the NEM Reform Implementation Roadmap including changes in the v.3 release. The session will benefit market participants and other stakeholders who are looking to effectively manage their own change program.

Please register your interest to attend here by Friday 20 October.

For more information, please contact NEMReform@aemo.com.au.



12. General Questions and Other Business



NEMReform@aemo.com.au



NEM Reform Program Consultative 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, all participants agree to adhere to the CCA at all times and to comply with appropriate protocols where required to do so.

AEMO has developed meeting protocols to support compliance with the CCA in working groups and other forums with energy stakeholders. Before attending, participants should confirm the application of the appropriate meeting protocol.

To access the full protocol at AEMO's website, visit: https://aemo.com.au/en/consultations/industry-forums-and-working-groups



For more information visit

aemo.com.au