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NEM Reform Program Consultative Forum

Meeting #13 8 November 2023



AEM



We acknowledge the Traditional Owners of country throughout Australia and recognise their continuing connection to land, waters and culture.

We pay respect to their Elders Past and present.

Topic Presenter Topic Presenter # Time Time N/A 8 **Noting – Commencement Updates** N/A - Taken as read Welcome Chris Muffett 1:00-1:05pm March 2024 Metering Exemptions 1:05-1:10pm **Actions & Feedback from Previous** David Reynolds September 2024 Release Meeting 9 2.05-2.15pm **Foundational & Strategic Initiatives** Ulrika Lindholm & Andrew IDX IDAM PC Bell 1:10-1:25pm **Program & Release Update** Rowena Leung / Jim Agelopoulos N/A 10 **NEM Reform Forums Update** N/A - Taken as read Spotlight 1:25-1:35pm 11 2:15-2:25pm **Upcoming Engagements** November Go Live Meghan Bibby NEM Reform Program Executive David Reynolds NEM Reform Program Website **David Reynolds** Forum NEM Reform program 2024 forum **Greg Minney** 1.35-1.45 **NEM Reform Program Review David Reynolds** focus 1:45-2.00pm June 2024 – IESS Update Carla Ziser 12 2:25-3:00pm **General Questions and Other** Chris Muffett **Business** 2.00-2.05pm June 2025 – FPP Update Oliver Derum

Appendix A:

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Competition law meeting protocol

Appendix B:

NEM Reform program Engagement, Planning, Delivery and Readiness.

"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"

Agenda





2. Actions & Feedback from Previous Meeting



Actions & Feedback from Previous Meeting

(Item = Meeting # – Agenda # – Reference)

ltem	Торіс	Action	Responsible	Status
12.11.0.1	Upcoming Engagements	AEMO to confirm 2024 Executive Forum dates with industry and confirm the December 2023 date when circulating the October meeting minutes	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	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	Closed



3. Program & Release Update

Program Update

Good progress made in the following areas.

- > 2023 draws to a close with successful deployment of November releases
- > Our attention will now turn to focus on initiatives being delivered in 2024

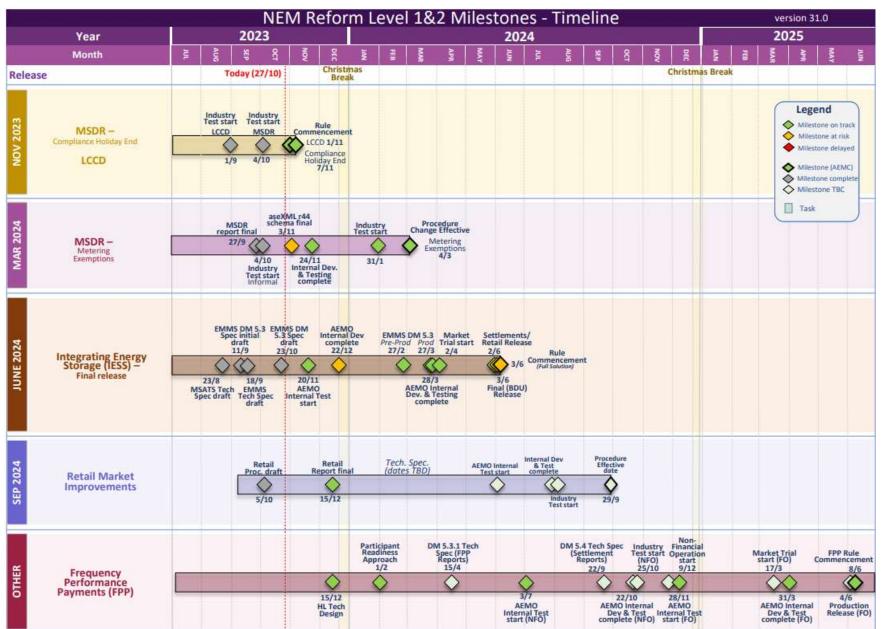
Key areas receiving management attention:

- > **IESS June 24:** Overall tracking on schedule. Project status to be reviewed at November checkpoint
- > IDAM/IDX/PC: Business Case preparation work continues. First round of estimates released 2 Nov. Review workshops scheduled.

Release	Initiatives	Previous Status	Current Status	Key Points	Impacted Stakeholders
NOV-23	MSDR Compliance		Delivered	Release Successfully Delivered, Changes Effective 1/11 and 7/11	Retailers, MC and MP/MDP, DNSP
	CDR (LCCD)		Delivered	Release Successfully Delivered, Changes Effective 1/11	FRMPs, DNSP
MAR-24	Metering Exemptions (MSDR)			Re-baselined with new schedule.Rescheduled to 4 March, includes schema update (3/3). Early release (to pre-prod) of APIs to support participant development, Schema Tech Spec (3/11) rescheduled for ASWG consideration.	Retailers, MC and MP/MDP, DNSP
JUN-24	Integrating Energy Storage Systems [Final]			Overall IESS remains on track. The schedule is tight, overall project status will be reviewed at a November checkpoint. Results from checkpoint will feed into a status update.	IRPs, NSPs, FRMP, MP/MDP, Vendors
SEP-24	Retail Market Improvements	N/A		Proposed scope to include NSLP and metering substitutions ICF, REMP consultation underway. Proposed release date is 29 Sept 2024 to be confirmed via procedure consultation.	MC, MDP, FRMP, DNSP
DEC-24 & JUN-25	Frequency Performance Payments			Project progressing to schedule. High level tech design on track for 15 December.	Generators, Market Customers



NEM Reform Level 1&2 Milestones PoaP





Key call outs:

- MSDR commenced Industry Testing from 4/10. The Compliance Holiday End Rule effective date is on 7/11.
- The Metering Exemptions internal development and testing of the r44 schema is planned to complete by 24/11. Publication of the final version of the r44 Schema Specification has been delayed to 3/11.
- The LCCD Rule Commencement is on 1/11/23. Industry Testing has concluded on 27/10.
- IESS Project Internal Development and System Testing is planned to complete during December. Testing of the Retail solution is on track to start in November. The EMMS Data Model 5.3 Spec second draft was published on 23/10.
- FPP Project the High Level Technical Design is planned to be available on 15/12.
- Retail Market Improvements the Retail Report final version is due to be published on 15/12. Planning is in progress.





AEMC



November 2023 CDR Tranche 3, CDR LCCD MSDR Compliance Holiday end

Meghan Bibby



Milestone Review: CDR Tranche 3, CDR LCCD, MSDR Compliance Holiday end

- 1 Nov 2023 initiatives:
 - Successful production deployment
 - Consumer Data Right (CDR) Tranche 3 and Last Consumer Change Date (LCCD) field population commences
 - MSDR Compliance Holiday end
- Today is final PCF update on the two initiatives as it is now in BAU
 - Hypercare period of 4 weeks (to end Nov 2023)
- CDR Tranche 3 involved the onboarding of 14 new retailers (Retailers with >10k customers) from 1 Nov.
- The CDR LCCD field enables the capture of the date a consumer starts or ends as the account holder for a premises from 1 Nov. The field will support future CDR energy usage requests where a consumer's request covers multiple FRMPs (subject to when Data Standards Body (DSB) updates the standard).
- MSDR Compliance Holiday end
 - Compliance holiday ends for Meter Register Standing Data Items (ConnectionConfiguration and Meter Manufacturer, Model and Use) on 7 Nov
 - Searching on unstructured addresses turned off from 29 Oct.



DELIVERED!

CDR AEMO Capabilities Delivered

The CDR project has operationalised support for CDR as a new function of AEMO.

The exchange of consumer data is via APIs that are defined by the Data Standards Body (a department under the Treasury).

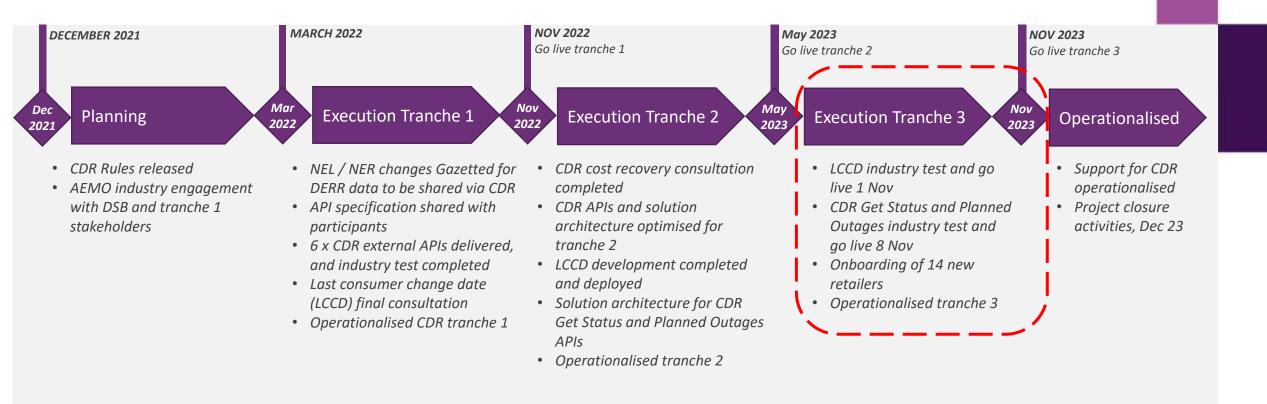
- Standing data APIs:
 - <u>Get Service Points (SR)</u> returns high level details only for a list of NMIs
 - <u>Get Service Point Detail (SR)</u> returns detailed standing data for a single NMI, including NMI details, address, participants, meter and register details
- Distributed Energy Resource APIs:
 - <u>Get DER for Service Point (SR)</u> DER data for a specific NMI
 - <u>Get DER for Specific Service Points (SR)</u> DER data for a list of NMIs
- Energy Usage APIs:
 - <u>Get Usage for Service Point (SR)</u> usage data for a specific NMI
 - Get Usage for Specific Service Points (SR) usage data for a list of NMIs

- Get Status and Planned Outages APIs:
 - <u>Get Status</u> obtain a health check status for the implementation
 - <u>Get Outages</u> obtain a list of scheduled outages for the implementation
- Last Consumer Change Date (LCCD) in MSATS
 - Retrieve historical data when consumer has changed retailer

Where are we now?

AEM

CDR is completing tranche 3 and moving to project closure



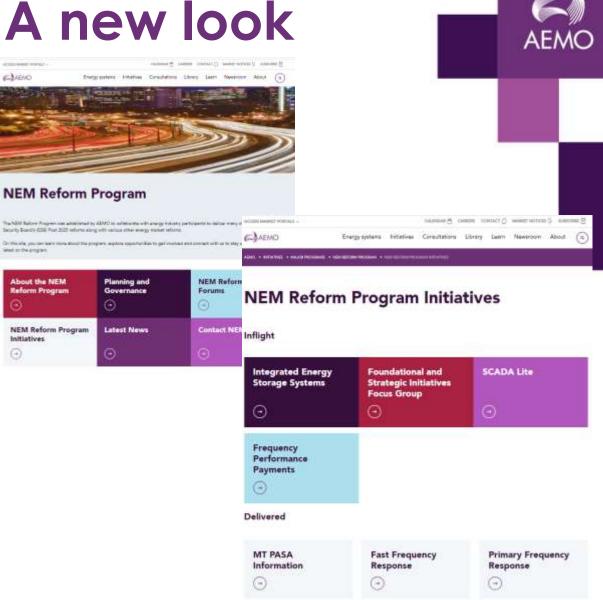


NEM Reform Program – Website uplift

David Reynolds

NEM Reform Program – A new look

- The NEM Reform program website has been updated to provide:
- improved visibility and access to information relating to Program initiatives and Forums
- Initiative and Forum webpage standardisation
- Improved visibility and access to participant support artefacts





5. NEM Reform Program Review

NEM Reform Program – 2023 Review

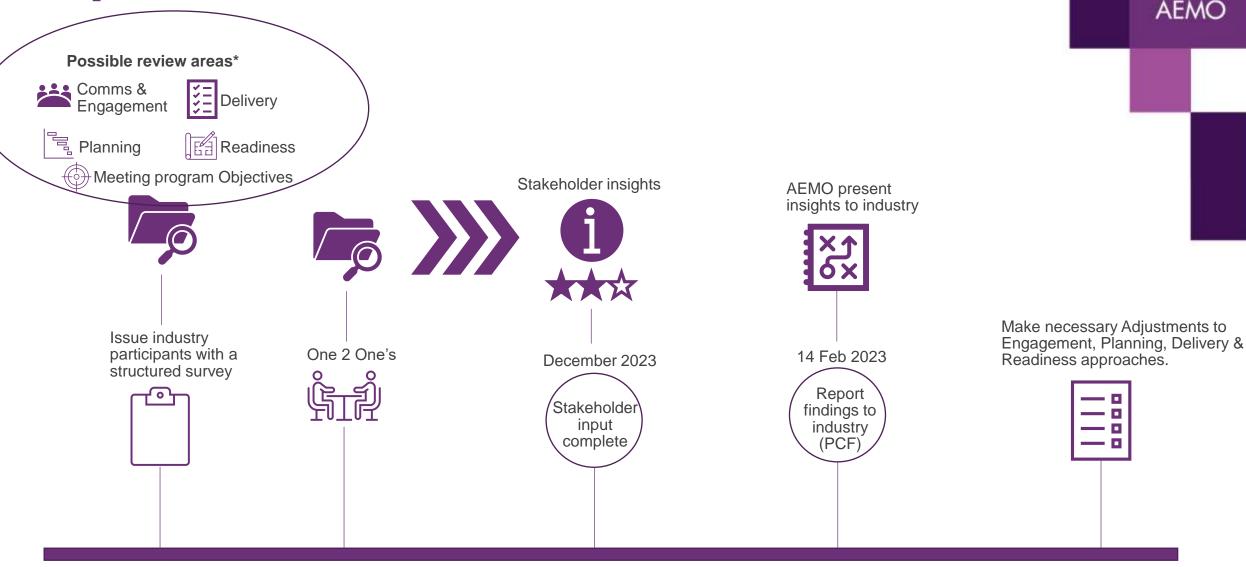


NEM Reform program 2023 – Program Review

- 2023 has been an intensive, but successful, year for Reform Delivery.
- Collectively, we have successfully deployed a large volume of reforms
- The November 2023 release marks the final delivery release for this calendar year.
- This presents us with an opportunity to reflect on our delivery process and look for opportunities to improve the process for our 2024 delivery schedule.
- We are proposing the following
 - Undertaking a review of our 2023 program processes to help inform 2024 delivery
 - The review should leverage industry insights
 - The review should include, but not be limited to a review of our engagement, planning, delivery and readiness process
 - The data collected as part of this review will be used to inform improving our process

1.1					
	Release	Initiatives	Stat	tus	Impacted Stakeholders
		Integrating Energy Storage Systems (Initial release)	Deliv	ered	Market Small Generation Aggregators
	Mar-23	Stand Alone Power Systems (SAPS) Market Stand-Alone Power System Resource Provider (MSRP) Registration	Deliv	ered	LNSP, FRMP, MP/MDP
	MAY-23	CDR (excluding LCCD)	Deliv	ered	Major retailers Complete
		B2B v3.8 and other ICFs	Deliv	ered	LNSP, FRMP, MP/MDP
	JUN-23	SAPS	Deliv	ered	LNSP, FRMP, MP/MDP
	AUG-23	Integrating Energy Storage Systems (ADC)	Deliv	ered	Aggregate Systems
	A00-25	Fast Frequency Response - Dispatch & Reg	Deliv	ered	Generators, Scheduled Loads, SGA, FRMP, IRP
	OCT-23	Fast Frequency Response	Delivered		Generators, Scheduled Loads, SGA, FRMP, IRP
		5 Minute load profile	Delivered		Market Customers / FRMP
		Increased MT PASA Information	Deliv	ered	Generators, Scheduled Loads
	NOV-23	CDR (LCCD), CDR Ph3, MSDR compliance Holiday	Deliv	ered	FRMPs, MPs, LNSP
	Release	Initiatives	Stat	tus	Impacted Stakeholders
	MAR-24	Metering Exemptions (MSDR)	New date	On Track	Retailers, MC and MP/MDP
	JUN-24	Integrating Energy Storage Systems [Final]	Aml	ber	IRPs, NSPs, FRMP, MC/MP/MDP, MSRPs, ENMs ,Vendors
	SEP-24	Retail Market Improvements	TB	C	FRMP, MDP, LNSP
	DEC- 24	Frequency Performance Payments (Non-Financial)	On ti	rack	Generators, Scheduled Loads.
	JUN-25	Frequency Performance Payments (Financial Commencement)	On ti	rack	Generators, Market Customers

Proposed Review Process



*See Appendix B below for a more detailed description of some of the proposed review areas.

NEM Reform Program – 2023 Review



Key considerations

- Is a retrospect analysis worthwhile?
- Have we got the right topic areas?
- Is a survey format the best approach?
- Any additional suggestions for us?



As always, please reach out to the team should you wish to provide 1 to 1 feedback.

NEMReform@aemo.com.au



6. June 2024 - IESS Update

Release update

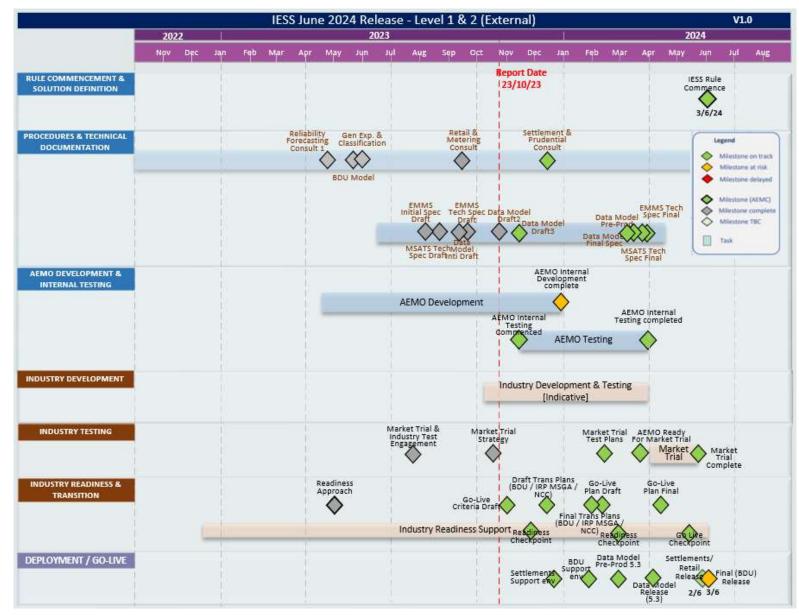


IESS is a large, complex project. To provide additional support, particularly in addressing emerging issues, AEMO's reform ownership and business lead responsibilities are now shared:

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

Please continue to route all IESS enquiries to the dedicated/monitored mailbox: IESS@aemo.com.au

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.
- AEMO Development remains AMBER, with good progress being made on interim milestones. AEMO Integration Testing on track for 20 November commencement
- <u>Procedures consultation</u> 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 external milestones as at 27/10/23

Lavel	Hilestone ID	Hilestone	Target Date	Expected Date	RAG	Tentative / Confirmed	Commonte
Lovol 1		AEMC Final Determination Published (Integrating energy storage systems into the NEM)	2-Doc-2021	2-Dec-2021	Camploto		
Lovel 2		IESS High lovel Derign final	7-Jul-2022	7-Jul-2022	Camplete		
	IES-210	Reliability Forecarting Conrultation 1	28-Apr-2023	28-Apr-2023	Camplete		
Lovel 1		BDU Madel Finalized	31-May-2023	31-May-2023	Camplete		
Lovel 2	IES-211	Guide to Gen. Exp. & Clarrification - Final documents published	1-Jun-2023	1-Jun-2023	Camplete		
		MSATS Technical Specification draft available	7-Aug-2023	23-Aug-2023	Camplete		
Lovel 2		EMMS Data Model 5.3 specification - Initial Draft	11-Sop-2023	11-Sop-2023	Camplete		
		EMMS June 24 Technical Specification (Draft)	18-Sop-2023	18-Sop-2023	Camplete		
	IES-213	Rotail Motoring Procoduror Final Publishod	18-Sop-2023	18-Sop-2023	Camplete		
		Indurtry Tort and Markot Trials Stratogy Draft published	22-50p-2023	22-50p-2023	Camplete		
		EMMS Data Model 5.3 specification - Draft 2	9-0-ck-2023	23-0 ct-2023	Camplete		Complete this period, draft issued
		Indurtry Test and Market Trials Strategy complete	17-0-et-2023	17-0ct-2023	Camplete		Complete this period
Lovel 2		Go-Livo Critoria draftfortablirh	30-0ct-2023		Green	Confirmed	
Lovol 2		EMMS Data Model 5.3specification - Draft 3	13-Nev-2023	20-Nev-2023	Green	Confirmed	Revired date, align to releare of updates cripts fo PDSE
		AEMO Internal Terting commenced	20-Nev-2023		Green	Confirmed	
		Draft Data Madel 5.3 scripts published	22-Nav-2023		Groon	Canfirmed	Tasupport participant development activities. Nat to be published in pro-prod or prod environments.
		Initiative Readiness Checkpoint	28-Nev-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		Ambor	Canfirmed	Dovelopment and system tests chedule pressure, strong progress being made on critical path development
		BDU Participant Dovelopment Support Environment available	22-Jan-2024		Green	Confirmed	
		Sottlomontr & Prudontials Procoduros publishod	29-Jan-2024	18-Dec-2023	Green	Confirmed	Revired date (earlier)
		Transition Plan Final (BDU/IRP MSGA/NCC)	31-Jan-2024		Green	Confirmed	i
		Markot Trial Tort Plan complete	16-Fob-2024		Green	Confirmed	i
		Indurtry Go-Live Plan Draft publiched	26-Fob-2024		Green	Confirmed	
	IES-218	EMMS Data Model 5.3 Released to Pro-Production	27-Fob-2024		Green	Confirmed	
Lovel 1		Initiative Readiness Checkpoint	1-Mar-2024		Green	Confirmed	
Level 1		EMMS Data Model 5.3 final specification available	12-Mar-2024		Green	Confirmed	
Lovel 2	IES-219	EMMS Data Model 5.3 Roleared to Production	27-Mar-2024		Green	Confirmed	
Lovel 2	IES-107	AEMO Internal Development & Terting complete	28-Mar-2024		Green	Confirmed	
		AEMO Roady for Markot Trial	2-Apr-2024		Green	Confirmed	
Lovel 1		MSATS Technical Specification final available	2-Apr-2024		Green	Confirmed	
		EMMS Sottlomont Tochnical Specification final	2-Apr-2024		Green	Confirmed	
	IES-108	Markot Trialstart	2-Apr-2024		Green	Confirmed	
Level 1	IES-214	Reliability Forecarting Consultation finalized	12-Apr-2024		Green	Confirmed	
Level 2	112 E 19	Sottlement Certification complete	19-Apr-2024		Green	Confirmed	
Lovol 2		Indurtry Go-Live Plan Final publiched Go-Live Checkpoint	19-Apr-2024 1-May-2024		Green Green	Confirmed Confirmed	
		Markot Trial complete	24-May-2024		Green	Confirmed	
	155-220						
	IES-220	IESS Sottlomonts Go-Livo	2-Jun-2024		Green	Confirmed	
Lovol2 Lovol2	IES-221	Rulo Cammoncomont Dato - Sottlomonts [NECR]	2-Jun-2024 3-Jun-2024		Green Amber	Canfirmed Canfirmed	Overall Schedule ir tight før BDU end tø end
							delivery
	IES-109	IESS Final Roloaro [BDU] - Rulo Common comont	3-Jun-2024		Green	Confirmed	



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	Market trial and industry testing, participant development support environment
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 11 Nov 2023, Subs due 27 Nov 2023 Settlements: NEM Settlement Estimates Policy - Draft paper 13 Nov 2023, Subs due 8 Dec 2023 Upcoming procedure consultations Electricity Market documents (#2): Dec 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, key interim milestones are being met. Pressure remains on key BDU components Internal AEMO testing commences 20 Nov 2023, with planning and preparation in progress. 	 IESS readiness approach finalised IESS go-live criteria finalised PDSE milestones established: ✓ Settlement 15 Dec ✓ BDU 22 Jan 24 IESS transition plans in progress in conjunction with the Implementation Forum and working groups Oct to Dec 2023, and finalised in early 2024. 	 IESS industry testing and market trial strategy finalised. 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

AEMC | IESS rule

AEMO | IESS procedure change program

IESS industry readiness is underway

5 months until market trial
7 months until go-live



INDICATIVE INDUSTRY PREPARATIONS

- \rightarrow Individual development and testing
- → Where applicable, prepare for industry testing and market trial
- → BESS participants to work with their bidding system vendor and AEMO to establish cutover timing to BDU operations

IESS workstream updates

To be read in conjunction with the IESS release schedule



IRP & BDU **IESS SETTLEMENTS** (5) **OCTOBER 2023** Settlements information session Thu 05 Oct * Session recording available here Mon 09 Oct Final IESS readiness approach published BDU focus group meeting #1 Thu 12 Oct BDU transition survey released, due Thu 26 Oct Tue 17 Oct IESS Industry testing and market trial strategy published Thu 20 Oct Updated IESS participant impact assessment published EMMS technical specification - Data model v5.3 - March 2024 Mon 23 Oct *New version published, including updates to DM tables based on feedback from MSUG Fri 27 Oct FAQs to website Fact sheet on Participant development support environment Late Oct/early Nov Various dates 1to1 discussions **NOVEMBER 2023** IRP information session: **TBC Nov** Approach to IRP registration processes • Market fee policy for IRPs . **TBC Nov** BDU focus group meeting #2 TBC Emerging retailer IESS information session Various dates 1to1 discussions

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

Material to address these questions has been published (FAQs), so that all participants can access the information.

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IESS material

REMINDER

Refer to the IESS participant toolbox for key project information

AEMO	Energy systems	Initiatives	Consultations	Library	Learn	Neerroom	About	(a)
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Integrating Energy Storage Systems

Integrating Energy Storage Systems Participant Toolbox

March 2023 release stapatch conformation

· June 2024 Regiminary

precisions changes

Integrating Energy Starage Systems Participant Toolbox

August 2023 release: Apprepried

June 2024 Retail and Settlement

classification, and bidding release

Integrating Energy Storage Systems

The IESS Participant Toolbox is a central location for useful resources to help perticipants. understand and prepare for the changes associated with the integrating Energy Storage. Systems rule's Implementation.



Reference information



7. June 2025 - FPP Update

June 2025: Frequency Performance Payments



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	

AEN



FPP November update

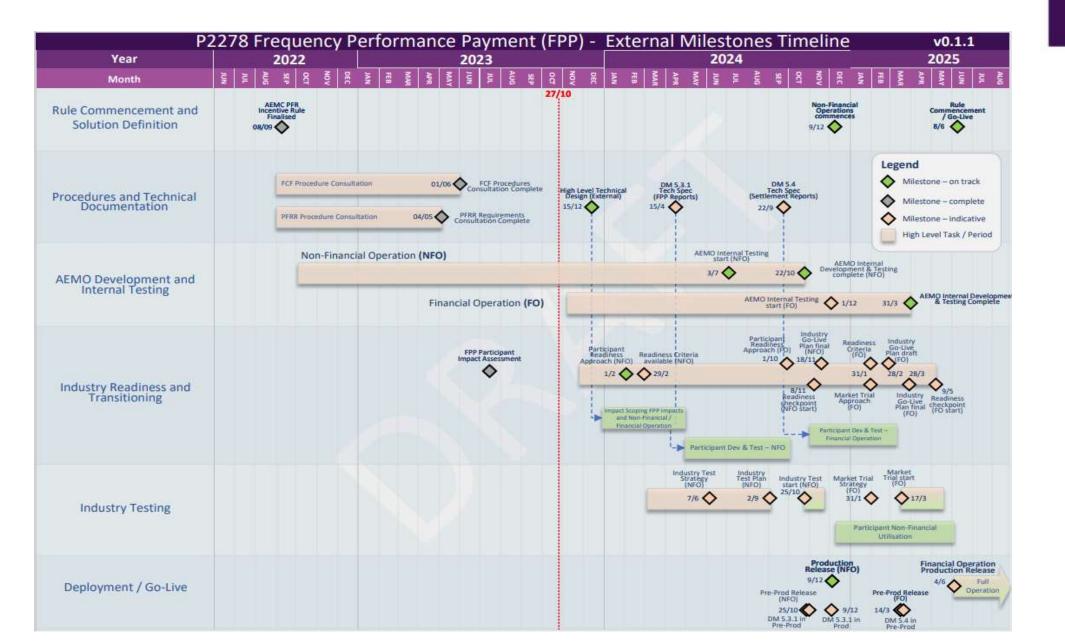
- AEMO is working to finalise the external high-level technical design document, for publication on 8 December.
- The document will provide a near-final FPP reporting data model design, identifying what new data will be provided to participants via NEM reports and the end of each five-minute FPP calculation and which causer-pays related data will cease to be reported from 8 Jun 2025.
- The document is being provided to assist participants to understand how their own systems will be impacted and commence the process of scoping, and potentially procuring, necessary changes to their systems, ahead of the release of the FPP Reports tech spec (5.3.1) 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 <u>the February 2023 workshop presentations</u> and the <u>Frequency Contribution Factors Procedure</u> .
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 <u>this presentation</u> .
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



AEMO

FPP- External Milestones as at 1/11/23



Milestone ID	Milestone	Project	Target Date	Expected Dat	RAG	Tentative /	Commentary
FPP-101	Rule Determination Published - Final	FPP	8-Sep-2022	8-Sep-2022	-	Confirmed Confirmed	Commeniary
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-206		FPP	20-Feb-2023				
FPP-208	PFRR Draft Determination Published	FPP	15-Mar-2023	20-Feb-2023		Confirmed	
FPP-208	CFP Second Stage Submissions received	FPP		15-Mar-2023		Confirmed	
FPP-210	PFRR Second Stage Submissions received PFRR Requirements Consultation complete	FPP	21-Mar-2023 8-May-2023	21-Mar-2023 4-May-2023		Confirmed Confirmed	
			,				
FPP-211	CF Procedures Consultation complete	FPP FPP	8-Jun-2023	1-Jun-2023		Confirmed	
FPP-102	NEM Procedures Published		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 Reamts) published	FPP	1-Feb-2024		Green	Confirmed	
FPP-230	Readiness Criteria av ailable (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 commmenced (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		
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		
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-243 FPP-107	AEMO Internal Development & Testing complete (Financial Operation)	FPP	31-Mar-2025	+	Green	Confirmed	
FPP-107 FPP-244		FPP	9-May-2025			Tentative	
	Readiness Checkpoint - Financial Operation	FPP			Green		
FPP-245	Market Trial finish (Financial Operation)		20-May-2025		Green	Tentative	
FPP-109	Production Release (Financial Operation)	FPP	4-Jun-2025		Green	Tentative	
FPP-106	FFP Project Go-Live / Rule Commencement	FPP	8-Jun-2025		Green	Confirmed	

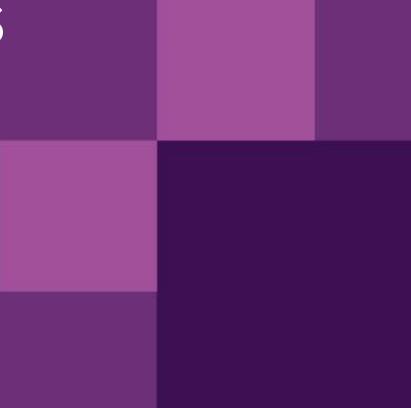


8. Noting – Commencement updates



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, informal Industry Testing in Progress

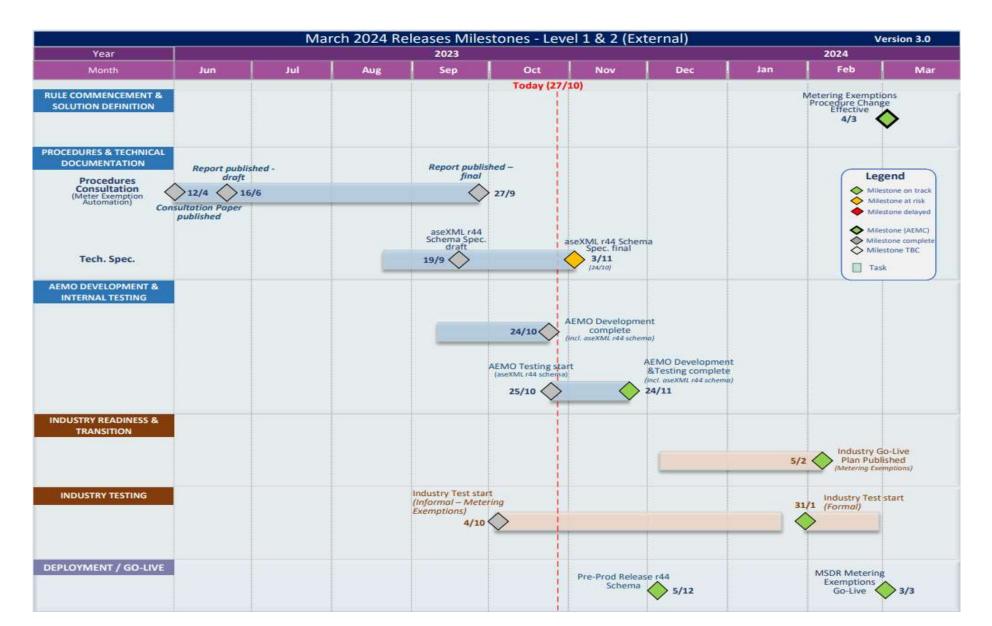
Procedures	Technical documentation	AEMO Development and Internal Testing	Industry readiness and Transition	Industry testing	Deployment and go- Live
 Metering Exemptions consultation complete Final Report published 27 Sept 2023 Effective date for metering exemptions changed to 4 March 2024. 	 MSATS Tech Spec to support Metering Exemptions changes have been published, includes expected aseXML changes. R44 B2M aseXML Schema spec to be issued 3/12 (previously 23/10) following ASWG consideration. 	 Metering Exemptions development and internal testing complete. AseXML schema tests to be completed November. 	 Transition of current exemptions are included in AEMO cutover plans. Metering Exemption APIs available for Participant testing from 4 Oct. 	 Metering Exemptions Industry Test rescheduled in line with revised deployment and aseXML schema availability for 29 Jan API testing commenced 4 Oct. Subset of current exemptions loaded in pre-prod to support Industry Test. 	 Metering Exemptions Procedure effective date confirmed as 4 March 2024. System deployment go live on 3 March 2024.

Relevant links

AEMO | Metering Installation Exemption Automation Consultation

AEA

March 2024 Milestones Timeline



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March Retail Release – Metering exemptions External Milestones as at 27/10/2023



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		Confirmed	
Level 2	MSD-210	AEMO Testing start (aseXML r44 Schema)	March 2024	16-Oct-2023	25-Oct-2023		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	



September 2024 Retail Market Improvements

For Noting

September 2024: Retail Market Improvements



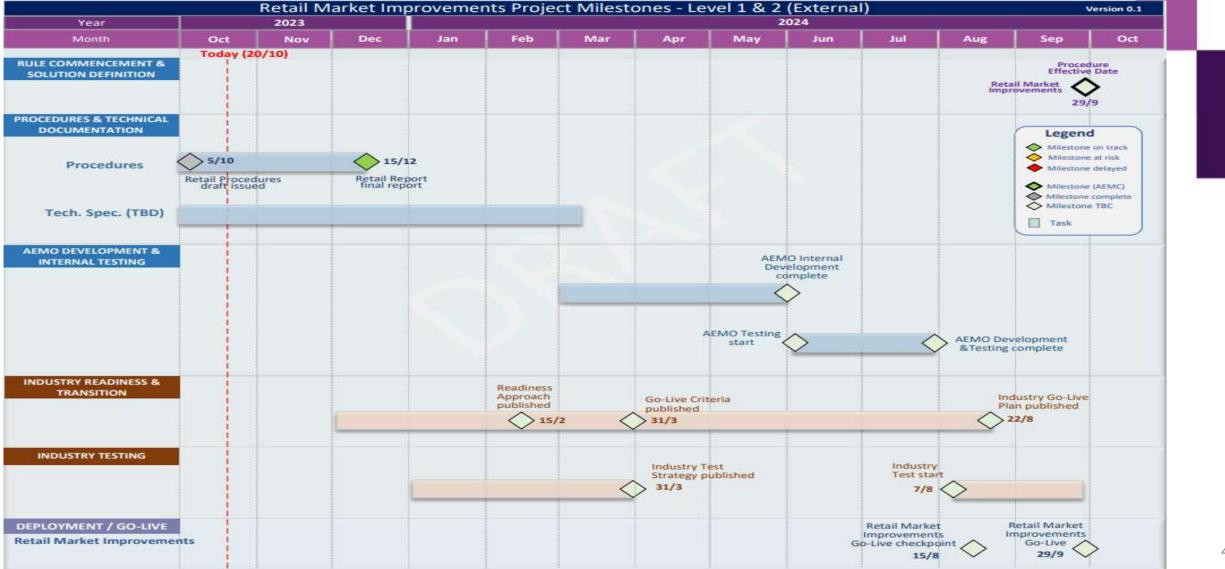
Key Date(s)	29 Sept 2024 (TBC)
Likely impacted stakeholders	FRMP, MC, MP, DNSP, MDP
Industry testing anticipated	Industry Testing
Overall status	Overall Green Procedure Consultation in progress, Indicative milestones provided for industry guidence

Procedures	Technical documentation	AEMO Development and Internal Testing	Industry readiness and Transition	Industry testing	Deployment and go- Live
 July 2023 REMP consultation in progress Draft report issued Submissions due 3 November Final report 15 December Draft procedure effective date proposed 29th September 2024 	Timing for Tech Spec update TBC	 Indicative timeframes provided. Schedule to be finalised in line with Final Report 	Readiness Approach to be agreed as part of execution phase	 Industry Testing, with AEMO scheduling of runs to validate NSLP changes, to be confirmed as part of Readiness Approach 	29 September planned procedure Effective Date (TBC).

Relevant links
AEMO July 2023 Retail Electricity Market Procedures Consultation

AEN

September Release Timeline



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	RMI-201	Retail Procedures draft issued	5-Oct-2023		Complete		Confirmed	
Level 2	RMI-202	Retail Report final report	15-Dec-2023			Green	Confirmed	
Level 2	RMI-203	Readiness Approach published	15-Feb-2024			Green	Tentative	
Level 2	RMI-204	Go-Live Criteria published	31-Mar-2024			Green	Tentative	
Level 2	RMI-205	Industry Test Strategy published	31-Mar-2024			Green	Tentative	
Level 2	RMI-206	AEMO Internal Development complete	31-May-2024			Green	Tentative	
Level 2	RMI-207	AEMO Internal Testing start	3-Jun-2024			Green	Tentative	
Level 2	RMI-208	AEMO Development & Testing complete	31-Jul-2024			Green	Tentative	
Level 1	RMI-101	Industry Test start	7-Aug-2024			Green	Tentative	
Level 2	RMI-209	Retail Market Improvements Go-Live checkpoint	15-Aug-2024			Green	Tentative	
Level 2	RMI-210	Industry Go-Live Plan published	22-Aug-2024			Green	Tentative	
_evel 1	RMI-102	Retail Market Improvements Go-Live	29-Sep-2024			Green	Tentative	
Level 1	RMI-103	Retail Market Improvements Procedure Effective Date	29-Sep-2024			Green	Tentative	



9. Foundational & Strategic Initiatives

Industry Consultation Update

Preparation of business case continues.

- AEMO has received ten stakeholder contributions to the 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: <u>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</u>
- Any queries can be directed to <u>NEMReform@aemo.com.au</u>

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

	Session 1	Session 2	Session 3A	Session 3B	Session 4A	Session 4B	Session 4C	Session 5	Session 5A	Session 5B	Session 6A	Session 6B	
2023	22 Mar	17 Apr	15 May	22 May	26 Jul	2 Aug	17 Aug	21 Sep	16 Nov	30 Nov	17 Jan	14 Feb	•
Session	Introduction	Discovery	Target State		Transition Strat	tegy		Cost & Method	I		Business Cas	e	
Agenda	 Introduce initiatives Outline workshop plan 	 Pain points and benefits Survey 	Concept walkSurvey	through	 Transition Str Impacts & Be Survey 		\bigcirc	 Industry and Assumptions methodology 	, options ar		 Walkthrough business case Assessment completion 	se	

Next steps: Cost and Method workshop on 16 November

Objectives

 Commence Business Case discussion covering draft costs and options assessment framework

Indicative agenda

- Updated Business Case timeline
- AEMO implementation costs
- Industry implementation costs
- Options assessment framework

Ask of participants

- Review the draft materials
- Identify topics requiring clarification
- Participate in the forum





10. NEM Reform Forums Update

For Noting

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NEM Reform Forums update



Channel	Current focus	Next meeting
NEM Reform Electricity <u>Wholesale</u> Consultative Forum (EWCF)	 The current focus is on regular updates for inflight reform IESS, FPP, and the strategic and foundational initiatives (IDAM IDX and PC). 	21 November 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. 	27 November 2023
NEM Reform Implementation Forum	 Focus on 2024 Releases – progress and implementation updates for all inflight initiatives for and 2024. Metering Exemptions delivery progress and Industry Testing Initial IESs Readiness Checkpoint IESS Transition Planning FPP - participant scoping for Non-Financial operation 	28 November 2023
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. 	29 November 2023
NEM Reform Industry Testing Working Group (ITWG)	 Metering Exemptions Informal Industry Testing progress and approach to formal industry Test IESS – Market Trial Planning approach and key considerations 	30 November 2023
NEM Reform Executive Forum	Agenda: • TBC	6 December 2023

For more information and meeting papers for the NEM Reform Program committees, forums, working groups and initiative specific please refer to the links below.

- <u>AEMO | NEM Reform Program Forums</u>
- AEMO | NEM Reform Program Initiatives

NEM Reform Program – Executive Forum



Executive Forum



The NEM Reform Program Executive Forum has been established with the objective of bringing together Executive level organisational representatives from across industry to address key challenges associated with delivery of the NEM Reform Program

Outcomes from our 25 August Executive Forum suggested holding the Executive Forum 3 to 4 times per year;

Accordingly, we have scheduled our next Executive Forum to be held on 6 December 11.00am – 12.30pm.

Forum Focus

The December session will build upon the foundations we laid in the last forum.

Our preliminary agenda items include:

- NEM Reform initiatives A retrospective and forward view incl key industry-wide challenges
- Foundational and Strategic Initiatives
- Overall Program Delivery Status and Cost



Next steps

We are in the process of finalising the specific agenda for our December session.

Invitations have been issued to nominees, with agenda and meeting material to follow in due course.



AEMO has scheduled an executive forum for the **<u>6 December 2023</u>**.



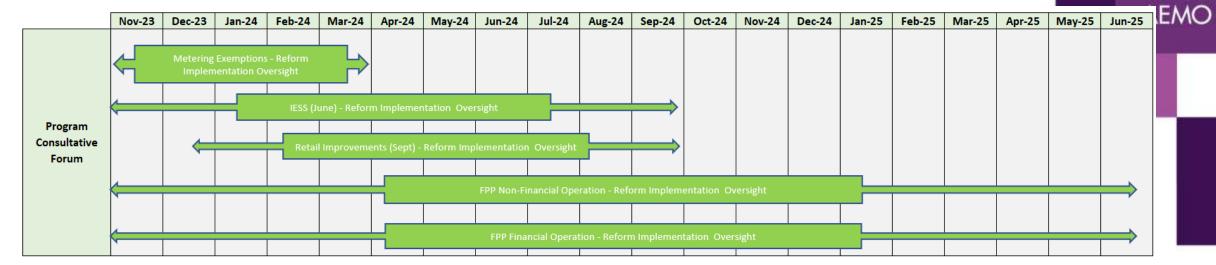
Executives interested in attending the NEM Reform program Executive forum can submit their nominations to NEMReform@aemo.com.au

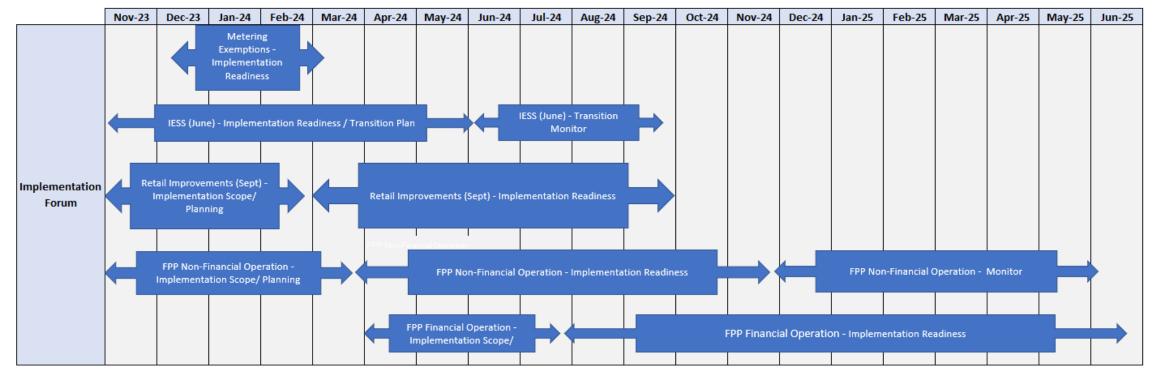


NEM Reform Program - 2024 Forum focus

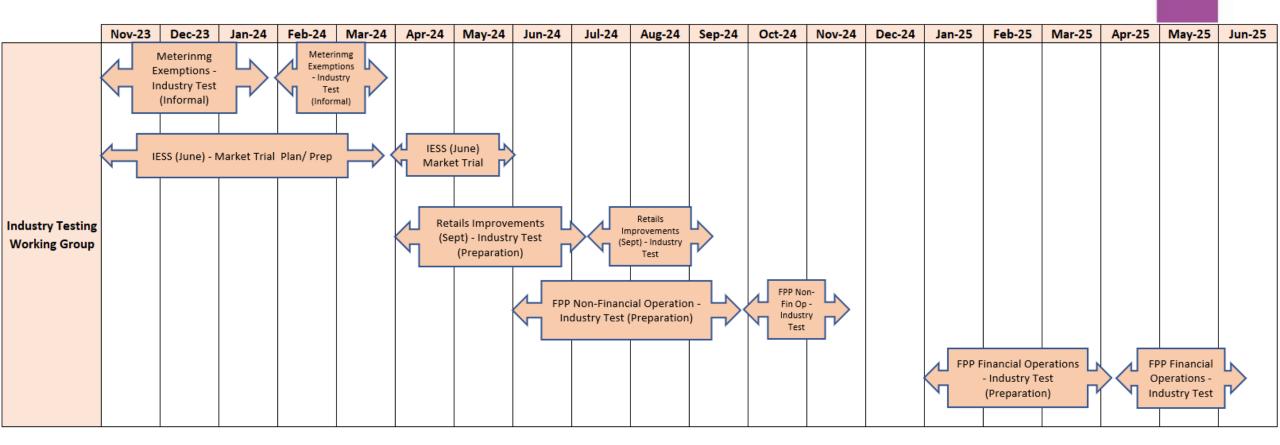
Greg Minney

NEM Reform Program - 2024 Forum focus





NEM Reform Program - 2024 Forum focus



AEMO



11. Upcoming Engagements

Upcoming engagements



November								
S	Μ	Т	W	Т	F	S		
			1	2	3	4		
5	6	7	8	9	10	11		
12	13	14	15	16	17	18		
19	20	21	22	23	24	25		
26	27	28	29	30				



NEM Reform Program Committees/Forums/Working Grou	ips
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 Executive Forum	
NEM Reform Industry Testing Working Group	
Foundational and Strategic Initiatives Focus Group	
Other Forums	
Electricity Retail Consultative Forum	
Other	
State/Territory Public Holiday	
AEMO Office Closed	

Note: All NEM Reform related committees, forums and working group invitations for CY2024 have been issued and are referenced on <u>AEMO's industry calendar</u>.



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12. General Questions and Other Business



<u>NEMReform@aemo.com.au</u>



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: <u>https://aemo.com.au/en/consultations/industry-forums-and-working-groups</u>



Appendix B: NEM Reform Program Engagement, Planning, Delivery and Readiness

NEM Reform Program – 2023 delivery

Overview and description of NEM Reform Program Engagement, Planning, Delivery and Readiness processes.



Engagement

Information channels Media Releases, Newsroom articles, Newsletters, Website, Mailbox, Infographics, Fact sheets & Tailored materials.

Consultation channels Industry briefing's & information sessions, Consultative forums, One 2 one meetings, Surveys

Stakeholder involvement Working groups and focus groups,

Collaborative channels EWCF, ERCF, PCF and Implementation Forum facilitate and support industry readiness

Planning

NEM Reform Implementation Roadmap (Visibility of implementation roadmap, longterm planning, bundling, sequencing and prioritizing of initiatives)

Reform Delivery Committee (RDC) (Leverages industry insight to maintain the implementation Roadmap)

NEM Reform Program Governance (manage implementation impacts of policy/rules changes, stage gate, investment commitment)

Informed Go-Live Date Process (High-level implementation design and participant impacts to assist in setting an informed go-live date for the Rule)

Participant delivery facilitation

Participant Impact Assessments & Development Timelines / Requirements (identifies impacts to participants and the timeline needed for their development)

Participant technical information (Provides participants with tech spec and interface information, testing support and environments, etc)

Participant self service (timing and participant Impact assessment, Self-serve videos outlining implementation design)

Industry Readiness

Industry readiness requirements (Establish L1/L2 milestones, Readiness criteria, Readiness monitoring and reporting, Contingency Plans)

(Plan and facilitate industry testing and market trial, define industry transition plans, define/manage industry-wide go-live)

Objectives

To work **collaboratively with industry** in setting a forward view aligned with reform timelines to support individual planning and delivery activities

To deliver effective solutions that meet the reform objectives

To deliver as efficiently as possible leveraging opportunities to bundle, sequence and prioritise projects within the Program, and where possible identify and drive out costs through solution design and implementation



For more information visit

aemo.com.au