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NEM Reform Implementation Forum

Meeting #14 29 August 2023



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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.

Topic Time Topic Presenter # 1 1:00–1:05pm Welcome **Greg Minney** 2:05-2:20pm Chris Fleming /Blaine Miner/ 5 November 2023 November Release Progress Justin Stute summary **2** 1:05–1:10pm Actions & Feedback from Previous **Greg Minney** Metering Exemptions Delivery Meeting LCCD BUT usage 2023 Release Summary **Greg Minney** 1:10-1:20pm 2:20-2:35pm June 2024 Release 6 Greg Minney Progress Update BDU Model Design/ Settlement **Emily Brodie** October 2023 Release 1:20-2:05pm Emily Brodie / Greg Minney Changes / AEMO Checkpoint • IESS – Aggregated Dispatch Conformance (ADC) Market trial scoping Emily Brodie / Greg Minney • FFR – Progress Update Next steps **Emily Brodie** Carla Ziser Oct Go Live Plan overview 2:35-2:40pm Other Initiatives (For Noting) 7 Industry Test Progress IDAM, IDX & Portal Consolidation Update Increased MT PASA Information – **Greg Minney** 2:40-2:455pm **Upcoming Engagements** Lenard Bayne 8 Progress Summary Industry Test Approach **General Questions & Other Business** 3:45-3:00pm **Greg Minney** 9 Go Live Plan Draft Go Live Criteria and Status

Presenter

Chris Fleming

Appendix A:

Time

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Competition law meeting protocol and AEMO forum expectations

• 5MLP (ICF060) Progress Summary

Approach and Timing

Industry Testing

"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

(Item = Meeting # – Agenda # – Reference)

Item	Торіс	Action	Responsible	Status
13.5.0.1	November Release Progress Summary	AEMO to work through the data population and testing approach for metering exemptions.	AEMO	Open
13.5.0.2	November Release Progress Summary	AEMO to provide information on the volume of Meter Exemption CRs that will be generated over the go-live window.	AEMO	Closed
13.6.0.1	June 2024 Release	 Participants to provide feedback on pros and cons of transition approach and development environment for their business to AEMO by Fri 28 July via any of: IESS@aemo.com.au 1to1 conversation Workshop 	Participants	Closed
13.6.0.2	IESS Market Testing Approach	AEMO requested participants to provide input on other test/trial scenarios to be considered for inclusion/exclusion from market testing scope by Friday 18 August via IESS@aemo.com.au.	Participants	Closed

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

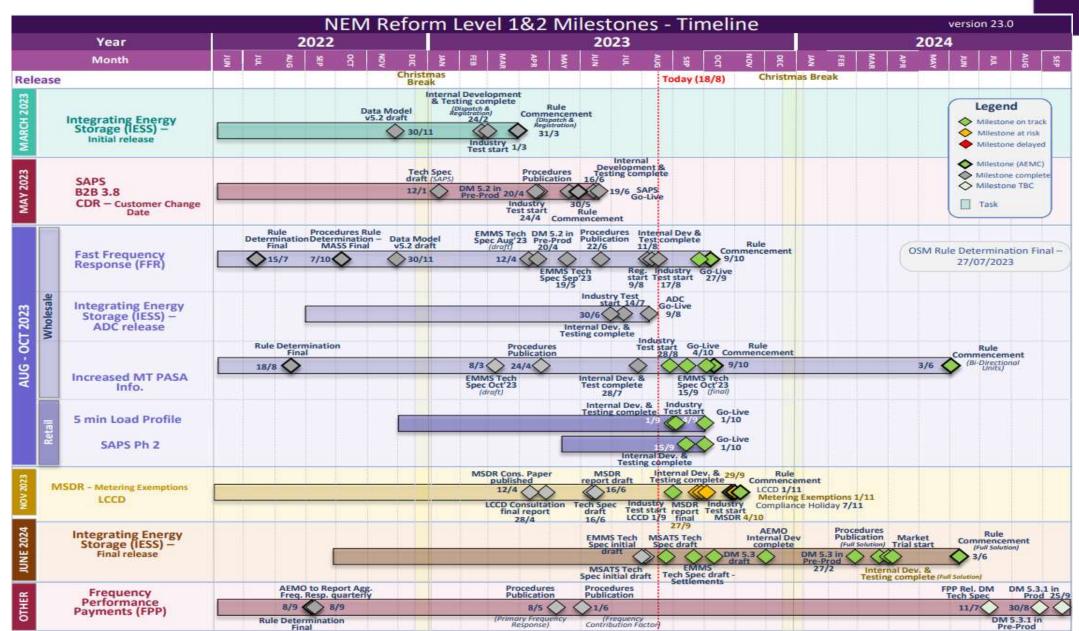


3.2023 Release Summary

Release Summary milestones

Update with current – suggest take out March and May







4. October 2023 Release

October release



Four major deployments included in this release:

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

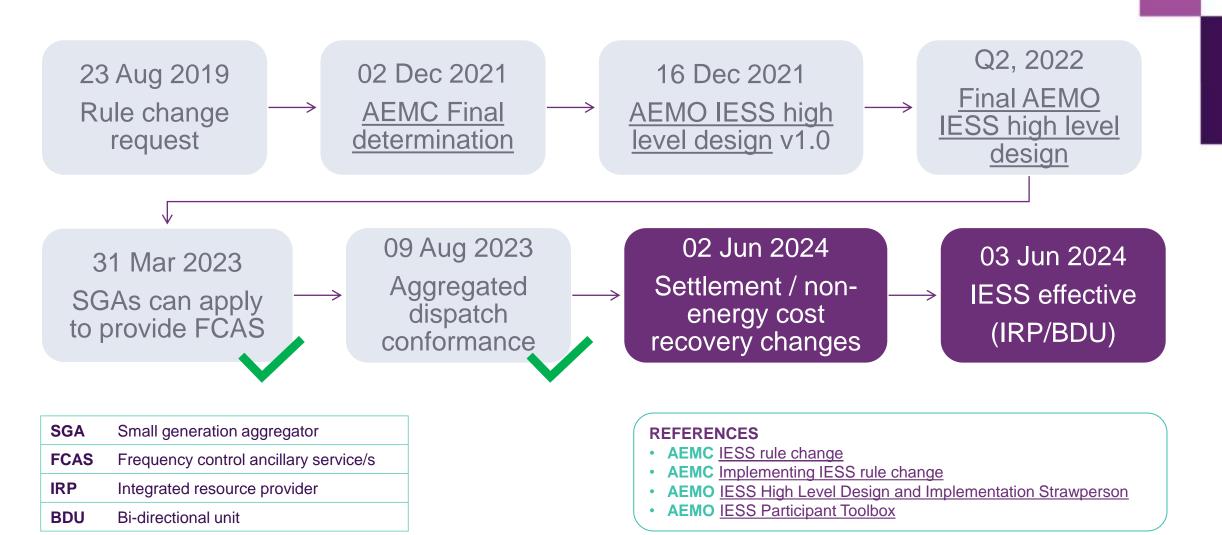


IESS – Aggregated Dispatch AEMO Conformance (ADC)

09 Aug 2023

IESS: High-level Timeline







Milestone Review: IESS – Aggregatec' dispatch conformance



- 09 Aug 2023: Successful production deployment
- 09 Aug 2023: Aggregated dispatch conformance (ADC) go-live
 - Existing 'ADC-like' participants moved to aggregate conformance
 - Mixed and cap aggregate systems can <u>apply to</u> <u>participate in ADC</u>
 - BESS are now Target Aggregates for conformance monitoring until they convert to a single DUID in Q3/4 2024 or Q1 2025.
- Contingency not needed
- Today is final Implementation Forum update on ADC as it is soon BAU
 - Hypercare period of 4 weeks (to 06 Sep 2023)

Additional resources



- ADC toolkit
- ADC fact sheet
- ADC go-live plan
- <u>Dispatch procedure</u> updated for ADC
- IT change and release management information
- IESS Project webpages



Fast Frequency Response (FFR)

Greg Minney

Go-live criteria management: Industry checkpoint for October 2023 release

INDUSTRY CHECKPOINT PURPOSE:

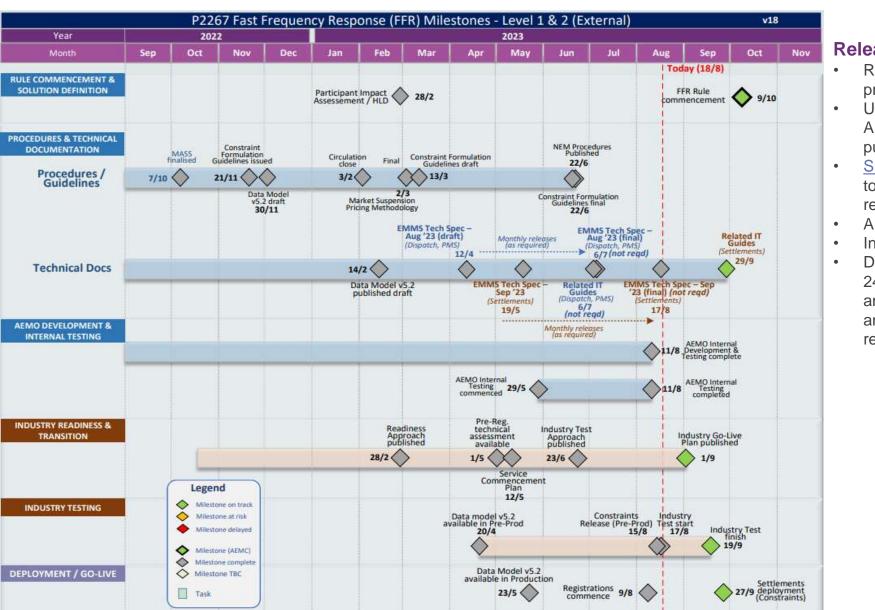
To provide assurance of implementation preparations ahead of the industry test period, allowing time for finalising AEMO's and participants' business preparations.

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INITIATIVE	FAST FREQUENCY RESPONSE – MARKET COMMENCEMENT (09 Oct 2023): Eligible providers can register to participate in VF FCAS			
CRITERIA	DESCRIPTION	STATUS (as at 22/8): ON TRACK		
Go-live criteria	 Technical Initiative Readiness components will consist of : Solution Readiness: System Changes required to meet initiative requirements AEMO Business Readiness: Procedures and business operations in place AEMO IT Support Readiness: IT operational support for solution in place Market Readiness For Service commencement: to be evaluated based on number of participants registered to provide service, offers in place , assessment of service requirements for market operation. 	 SIT complete. UAT complete. Deployment to preproduction 17 Aug. Industry testing underway All business readiness preparations on target for completion in line with 9 Oct commencement Market readiness TBA depending on ongoing registration activity 		
CONTINGENCY	Defer market commencement until go-live criteria are met.	No current indication that contingency will be needed.		

FFR Milestones and progress



Release Commentary

- Registrations now open. Participant registration process will support participation in industry test
- Updated Technical Spec for PMS, Dispatch API, Bidding and Markets Portal updates published 19/5
- <u>Supporting information</u> available for participants to understand technical requirements for registration.
- AEMO internal Testing complete
- Industry testing commenced 17th August
 - Draft FFR Phase 2 Go-Live plan published on 24/7 providing overview of decision timings and communication for AEMO solution go-live and Service Go-Live. Final version due for release 1/9

Industry Testing update

Update

- Industry testing Q&A sessions commenced on 15th August
- Pilot testing has been completed.
- Multiple participants have submitted Registration applications and are progressively being established in pre-production, enabling them to perform the full suite of testing activities.
- One defect raised to date that AEMO is working to address.

Scope

- perform pre-prod demonstration of ability to submit bids for Very Fast FCAS as part of the Registration process to provide the new very fast FCAS services. (Applicants established in Pre-prod to perform this demonstration.) Submit and verify FCAS bids via the FTP, API, or Markets Portal 'Energy & FCAS 5min Bids' capability.
- ingest pre-dispatch and dispatch instructions, FFR enhancements to Wholesale Data Interchange MMS Data Model (DISPATCH, P5MIN, PREDISPATCH, TRADING_DATA, FORCE_MAJEURE packages).
- regression test bid, dispatch, and Wholesale Data Interchange functionality (participating and non-participating providers for the new services).
- test bidding processes and automated energy/FCAS trading tools are working correctly.
- ingest Settlement changes for generators and load market customers showing recovery calculations for the new service i.e., Settlement reports and data model via Wholesale Data Interchange (Settlement and Billing packages) and download via Settlements Direct (Markets Portal application).

FFR Service Go-live

- AEMO will enable participants on pre-production for industry testing once Registration applications are received and AEMO has performed initial checks and processing of applications. Interested participants are strongly encouraged to submit Registration applications as soon as possible.
- Participants affected by settlement changes are also invited to participate in industry testing.
- Final version of FFR Go Live Plan to be released 1st September

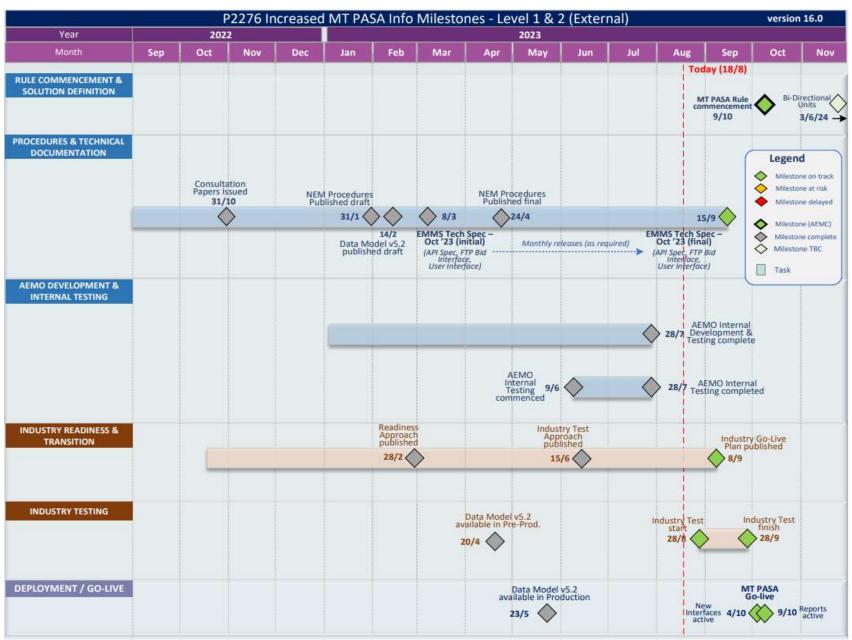




Increased MT PASA Information

Greg Minney

MT PASA Milestones and progress



Release Commentary

- AEMO internal testing completed 4/8
- Preproduction successfully deployed 16/8 – in preparation for Security testing
- Industry testing commences 28/8 until 29/9
- Industry Test approach discussed with ITWG
 - Q&A session invitations
 distributed
- Updates to October Technical Spec published 4/8
- Draft go-live plan published 31/7 with no feedback. Final will be published 8/9

Approach for Industry Testing

Affected Participants

Existing Scheduled Generators and Scheduled Bi-directional Units. Optional – TNSPs and Scheduled Loads

Objectives

To provide participants the opportunity to:

- prove their updated systems against AEMO's market systems.
- test end-to-end scenarios of updated processes and procedures.
- to contribute to their assessment of overall industry readiness for rule commencement.

Participating in MT PASA industry testing

- Data Model 5.2 supports Enhanced MT PASA Information.
- 28/8 Participants can submit offers via FTP, Web and API mirrors 4/10 Prod deployment
 - Participants intending to submit bids via API technology required to apply for URM rights and TLS certificates via AEMO's Market Portal
- 31/8 Reports available showing participant data mirror 9/10 Prod deployment
 - Participants to subscribe to new reports

MT PASA Go-live

- Impacted Participants need to have upgraded to EMMS Data Model 5.2. Latest October Tech Spec published 4 Aug.
- Participants who intend to submit bids via API technology to apply for URM rights and TLS certificates via AEMO's Market Portal
- Draft of MT PASA Go Live Plan published 31st July Final version by 8 Sept, provides key timings and communication channels





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



INDUSTRY CHECKPOINT PURPOSE:

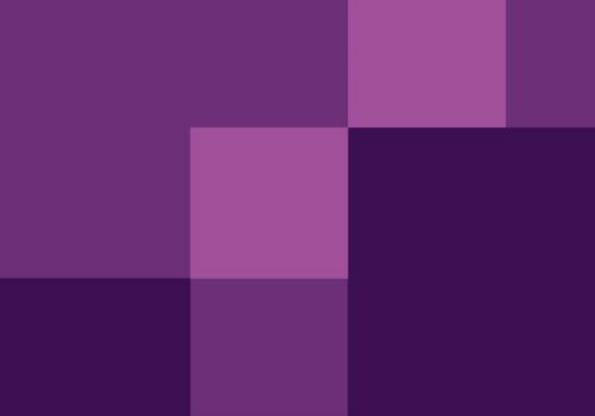
To provide assurance of implementation/rule commencement preparations ahead of the industry test period, allowing time for finalising AEMO's and participants' business preparations.

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 22/8): On Track for Industry Test start			
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 	 SIT and UAT 100% complete. Preproduction deployment completed. All business readiness preparations are completed 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.	n/a			
CONTINGENCY	AEMO to identify new committed readiness date and communicate to the AER	No current indication that contingency will be needed.			

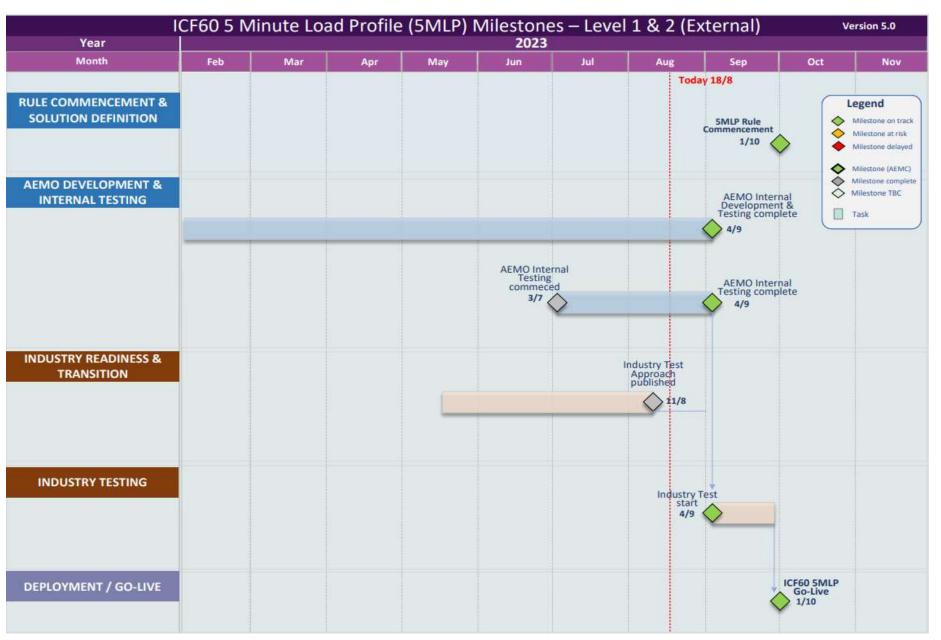


5MLP (ICF060)

Chris Fleming



5MLP Timelines



Release Commentary

- AEMO testing is continuing and will conclude on 4/9.
- Preparations for industry test are continuing to schedule.
- Industry Test will run from 4 Sept to 28 Sept.
- Effective date for 5MLP in production is 1/10

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5MLP

- Procedure effective date for 5MLP change is 1 October
- Industry Testing period to run from 4 Sept to 28 Sept
- Validation of 5MLP changes in Preprod to be via RM Reporting based on 180 days data in the following sequence:
 - Baseline runs with weights (current profiling methodology)
 - Baseline runs without weights (current profiling methodology)
 - Run with new methodology (without weights)
- Participants can compare the profiling outcomes via the relevant RM reports (RM20, RM16, RM17, also potentially UFE RM reports)
- Timings of RM report generation will be presented at the next ITWG (31/8)



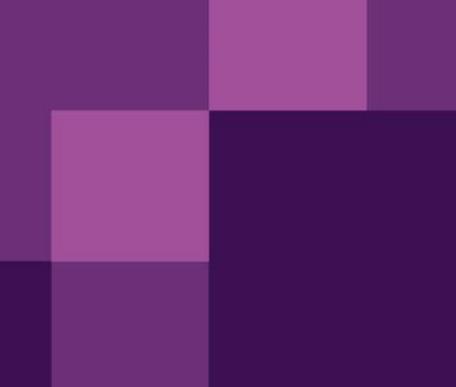


5. November 2023 Release

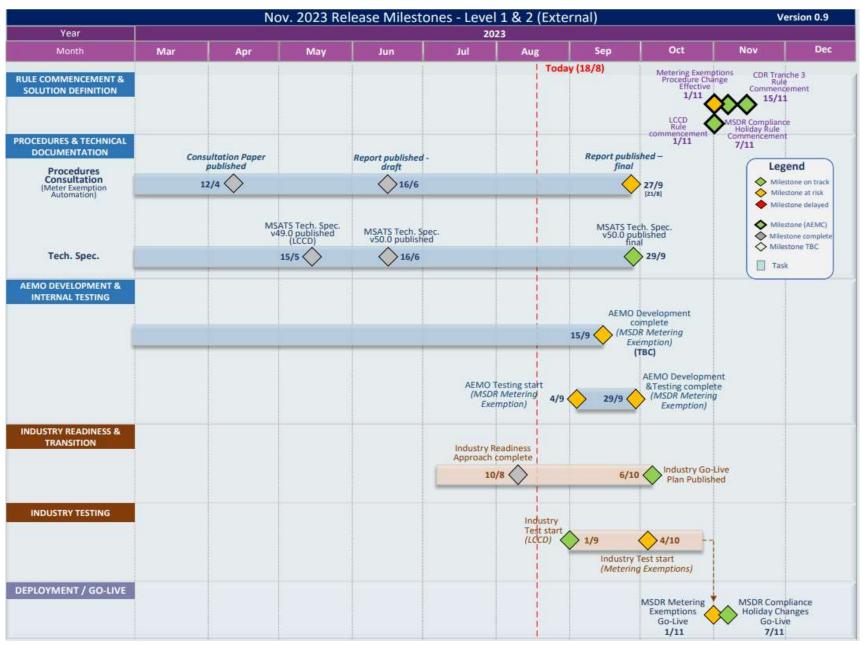


November Release Progress Summary

Chris Fleming



November 2023 Timelines



Release Commentary

- Schema change identified for Meter Exemptions which may impact golive timing (see Next slide)
- Effective date for LCCD in pre-prod is 1/09, production effective date is 1/11
- Industry Test Start date for Meter Exemptions 4/10 (subject to schema decision)
- Compliance holiday ends for Meter Register Standing Data Items and ConnectionConfiguration 7/11
- Proposing that searching on unstructured addresses will be turned off from 29/10 if the Meter Exemptions go-live proceeds to plan
- CDR Tranche 3: Retailers with >10k customers from 15/11



aseXML Schema Update Requirements



- Change identified to the B2M r43 aseXML schema to support Metering Exemptions.
- Met with Industry Participants on 18/8 to review alternatives. Participant feedback requested on 2 options:
 - Option 1 Schema document update (no schema release). Continue with November 2023 go live
 - Option 2 Introduce new B2M schema (r44) and delay release and production go-live until early March 2024
- Participant responses due by COB 25 August. Decision to be provided to participants by 1 September 2023.
- Verbal update on responses will be provided during meeting
- Regardless of the participant response, we will continue to work towards deploying the API & UI code into Preprod in early September. If a new schema version is required, this will be delivered at a later date (TBC).
- Note: it is now unlikely that an early deployment of APIs into pre-prod will be possible.



Metering Exemptions - MSDR

- Procedure consultation has been published on the <u>AEMO's website</u>.
- Draft Procedure has been published
- Submission period for the draft report closed on 17 July
- Final report now to be published 27 September (formerly 21 August)

Stage	Date
Consultation paper published	12 April 2023
Submissions due on consultation paper	12 May 2023
Draft report published	16 June 2023
Submissions due on draft report	17 July 2023
Final report published	27 September 2023

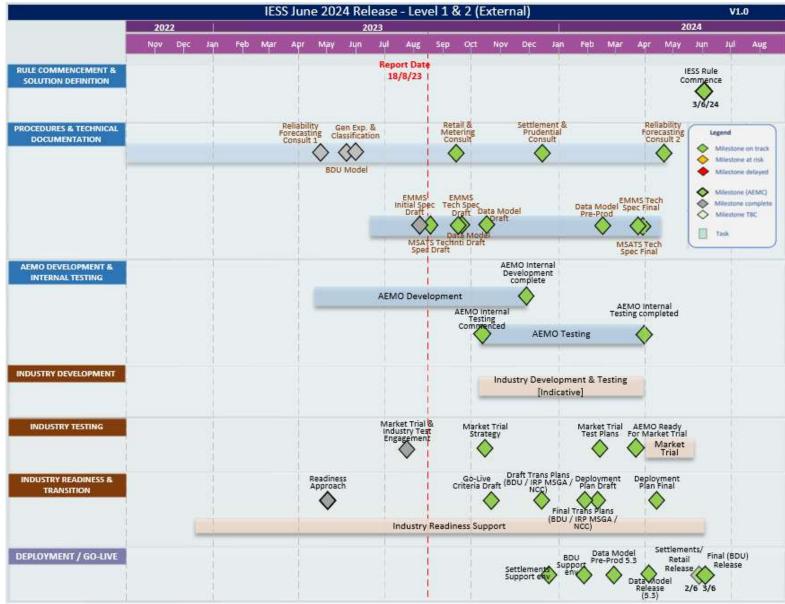
LCCD – Blind Update Tool

- The Last Consumer Change Date (LCCD) field becomes effective into the CATS Procedures for all retailers from 1 November 2023.
- Data Standards Body (DSB) Consultation
 - The introduction of the LCCD into the standards is currently being consulted on.
 - Proposed implementation of the LCCD into the standards is 2024.
 - AEMO will include the LCCD field into the relevant API once the LCCD is implemented into the standards.
- AEMO LCCD position
 - The preferred approach is to wait until the LCCD is written into the standards and then consider releasing the Blind Update Tool for use by retailers.
 - This will also allow retailers to manage their LCCD processes in a BAU state in the initial stages of the LCCD becoming effective.



6. June 2024 Release

June 2024 - IESS Final Release



RELEASE COMMENTARY

- Project schedule is now baselined to meet the June 2024 IESS rule commencement dates.
- Procedures consultation in progress
 via EWCF/ ERCF* and on track
- AEMO development and internal testing completion milestone now rated Green. AEMO has confirming development resources and delivery approach in line with June rule commencements.
- AEMO has responded to requests for participant support for both IESS Settlement and BDU implementations (see next slide)
- Following milestones have been defined and confirmed:
 - → Draft technical documentation
 - → Industry readiness support
 - → Industry Testing and participant development support
 - \rightarrow Transition and go-live plans



IESS June 2024 Release updates



1. IESS Settlements implementation Sun 02 Jun 2024



2. IESS IRP & BDU implementation Mon 03 Jun 2024



3. IESS Industry test and market trial April/May 2024



4. Upcoming IESS discussions

1. IESS Settlements update





Feedback on IESS Settlements implementation sought Feb to Jul 2023.

FEEDBACK - KEY THEMES	AEMO RESPONSE
Earlier engagement on changes	Lessons learnt from process to inform approach for future reform projects. AEMO intend to discuss with Reform Delivery Committee as part of continuous improvement of the Program's approach.
Clear milestone timing	Project schedule is now baselined to meet the June 2024 IESS rule commencement dates, including L1/L2 milestones
Earlier release of technical material	Along with "traditional" draft and final releases, have begun providing "initial releases" of tech specs and data model. "Initial releases" of tech specs to allow participants to commence development in more timely fashion however updates likely required as AEMO's design progresses.
Provision of participant support environments	For IESS Settlements, data transition support will be available. There are benefits and drawbacks to the data transition, noting that each participant will have different impacts and opportunities.
Appropriately timed market trial	 Market trial milestone dates based on: Timeframes expected for build / test by participants and AEMO Providing earlier participant development support
Supporting workshops or information sessions	 AEMO will stand up ad hoc sessions for IESS Settlements: Complementary to existing NEM Reform forums Likely aligned with key project milestones e.g. release of tech specs Will seek input from participants on agendas

2. IESS IRP & BDU update





Feedback on IESS BDU implementation sought Mar to Jul 2023.

FEEDBACK - KEY THEMES	AEMO RESPONSE
Implementation design & costs	 Responded to industry requests to maintain ability to bid regulation FCAS separately for generation and load. Modified the BDU bid structure to closely align with existing generation and load bid structures to reduce implementation costs. Reduced participants' implementation risks by providing a substantial transition period for most BESS i.e. more BESS participants have a greater choice on when they cutover from a dual DUID to a single DUID.
Earlier release of technical material	 Along with "traditional" draft and final releases, have begun providing "initial releases" of tech specs and data model. "Initial releases" of tech specs to allow participants to commence development in more timely fashion however updates likely required as AEMO's design progresses.
Provision of participant support environments	BDU support environment will be provided
Supporting workshops/information sessions	 AEMO will stand up regular sessions (likely monthly) for IESS BDU implementation: Complementary to existing NEM Reform forums Likely focus will be on technical support and readiness planning Will seek input from participants on agendas

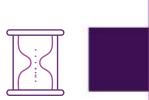


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3. IESS Industry test & market trial update

KEY DATES	ACTIONS
Tue 25 Jul	Called for feedback on scope of IESS market trial at Implementation Forum
Fri 18 Aug	No substantive feedback received
NEXT STEPS	AEMO assumes that proposed scope is broadly correct and, based on this, will produce a draft IESS market trial strategy for feedback.
Fri 22 Sep*	AEMO releases draft IESS market trial strategy for industry feedback
Tue 26 Sep	Discussion on draft IESS market trial strategy at Implementation Forum
Fri 06 Oct	Participants to provide feedback
Fri 17 Oct	AEMO publishes final IESS market trial strategy that considers participant feedback
Nov 23 – Feb 24	Detailed market trial/industry test plans will developed conjunction with ITWG.

*This date is later than advised at the last meeting owing to replanning, but does not affect the milestone date for publishing the final strategy.



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4. IESS upcoming IF discussions

TIMING	ACTIVITIES
SEP 2023	 IESS draft go-live criteria Updated readiness approach based on feedback received Draft IESS market trial strategy *Potential workshops
OCT – DEC 2023	Finalised go-live criteriaDevelopment of transition plans and go-live plans



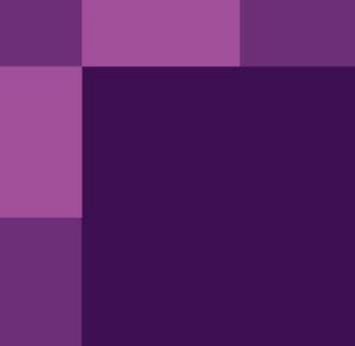
7. Other initiatives



Strategic / Foundational Initiatives

Identity & Access Management Industry Data Exchange Portal Consolidation

Ulrika Lindholm



Process to date with industry

- Phase four concluded with industry*.
- Industry workshops on business case to commence on 7 September.
- Any queries can be directed to <u>NEMReform@aemo.com.au</u>.



Session	Introduction – IDX, IDAM & PC	Discovery Workshops – IDAM and PC	Target State Discussion	Transition Strategy	Conclusions and Business Case
Agenda	Introduce initiativesOutline workshop plan	Pain points and benefitsSurvey	Concept walkthroughSurvey	Transition StrategyImpacts & BenefitsSurvey	Walkthrough of draftAssessment and completion

*Published information and materials:

- <u>Target state</u> published 10 July
- Target state feedback summary
- Transition strategy draft shared with focus group 18 July (final expected published end of August)
- 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>



8. Upcoming Engagements

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Upcoming Engagements

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NEM Reform Program Committees/Forums
NEM Reform Program Consultative Forum
NEM Reform Delivery Committee
NEM Reform Delivery Committee - Collab W
NEM Reform Implementation Forum
NEM Reform Electricity Wholesale Consultative Forum
NEM Reform Executive Forum
NEM Reform Industry Testing Working Group
NEM Reform Initiative Specific Foundational and Strategic Initiatives
Other Forums
AEMO Consumer Forum
Market Systems User Group (MSUG)
Electricity Retail Consultative Forum
Other
Natioanl Public Holiday
State/Territory Public Holiday

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



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9. General Questions & Other Business

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

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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.



For more information visit

aemo.com.au