

NEM Reform Program Consultative Forum

Meeting #6
12 April 2023



1. Welcome

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

We pay respect to their Elders past, present and emerging.

Agenda

#	Time (AEDT)	Topic	Presenter(s)
1	1:00 – 1:05pm	Welcome	Peter Carruthers (AEMO)
2	1:05 – 1:10pm	Actions & Feedback from Previous Meeting	Peter Carruthers (AEMO)
3	1:10 – 1:30pm	Program & Release Update	Rowena Leung & Jim Agelopoulos (AEMO)
4	1:30 – 1:40pm	May Commencement Update <ul style="list-style-type: none"> • Status Update • Assessment against Go live Criteria • Contingency plans 	Meghan Bibby & Greg Minney (AEMO)
5	1:40 – 2:20pm	Commencement Updates <ul style="list-style-type: none"> • March: IESS (FCAS for SGAs) • May: refer agenda item 4 • August: IESS (ADC) • October: FFR, MT PASA, 5MLP • November: CDR, Metering Exemptions • June 2024: IESS • June 2025: FPP 	Chris Muffett (AEMO) Meghan Bibby (AEMO) Chris Muffett (AEMO) Chris Muffett (AEMO) Meghan Bibby (AEMO) Chris Muffett (AEMO) Chris Muffett (AEMO)
6	2:20 – 2:25pm	NEM Reform Forums Update	Ulrika Lindholm (AEMO)
7	2:25 – 2:35pm	NEM Reform Implementation Roadmap Update	Lance Brooks (AEMO)
8	2:35 – 2:40pm	Foundational & Strategic Initiatives <ul style="list-style-type: none"> • IDX IDAM PC 	Ulrika Lindholm/Andrew Bell (AEMO)
9	2:40 – 2:45pm	Upcoming Engagements	Ulrika Lindholm (AEMO)
10	2:45 – 3:00pm	General Questions and Other Business	Peter Carruthers (AEMO)

Appendix A:
Competition law meeting protocol and AEMO forum expectations

Appendix B:
Go Live Criteria Management

"Please note that this meeting will be recorded by AEMO and may be accessed and used by AEMO for the purpose of compiling minutes. By attending the meeting, you consent to AEMO recording the meeting and using the record for this purpose. No other recording of the meeting is permitted"

2. Actions & Feedback from Previous Meeting

Actions & Feedback from Previous Meeting

(Ref: Item = Meeting number/Agenda item number/Ref)

#	Topic	Action	Responsible	Status
4.6.3	Oct Release – FFR	AEMO to consider publishing a track change tech spec outlining changes made since the previous version to assist industry when conducting their initial impact assessment.	AEMO	Closed
5.3.0.1	Program & Release Update	AEMO to clarify PMS dispatch remainder in relation to the three tech spec milestones.	AEMO	Closed
5.4.0.1	NEM Reform Forum Update	PCF members to provide any suggested agenda items for the NEM Reform Executive Forum by 31 March 2023.	Participants	Closed – No feedback received
5.7.0.1	Foundational & Strategic Initiatives	AEMO to share with members outputs from the IDX workshops held in 2021.	AEMO	Closed
5.7.0.2	Foundational & Strategic Initiatives	PCF members to provide feedback on the proposed consultation approach including the focus, timings, workshop structure and intended audience.	Participants	Closed
5.7.0.3	Foundational & Strategic Initiatives	PCF members to put forward nominations for the IDAM, IDX & PC Business and Technical focus groups by emailing NEMReform@aemo.com.au by 23 March 2023.	Participants	Closed
5.7.0.4	Foundational & Strategic Initiatives	AEMO will look to adjust the estimated length of each workshop and breakdown participant involvement against each workshop.	AEMO	Closed
5.7.0.5	Foundational & Strategic Initiatives	PCF members queried what imperative might support participants’ case for funding of the uplift of systems. AEMO to consider what imperatives will support participants case for funding (e.g. Security of Critical Infrastructure Act) as we progress work on strategic and foundational initiatives.	AEMO	Closed
5.8.0.1	Upcoming engagements	AEMO to include public holidays in the legend as part of the upcoming engagement agenda item moving forward.	AEMO	Closed

The latest meeting minutes and materials are available on the [Program Consultative Forum](#) webpage.

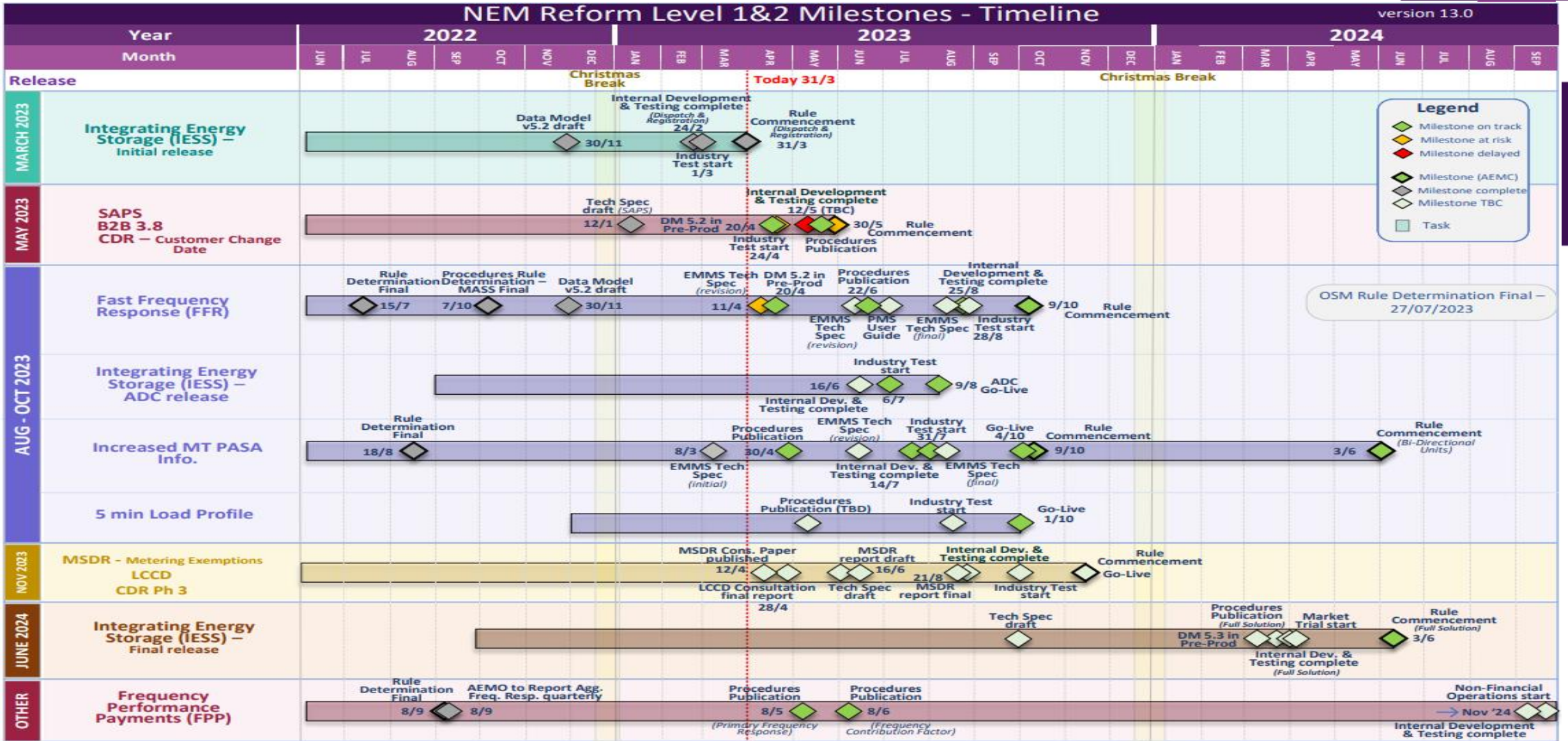
3. Program & Release Update

Program Update

- Overall good progress has been made by the program team, IESS March successfully deployed, key concern remains for SAPS testing as part of the May Release.
- Key emerging project challenges relate to Test environment management and availability, impacting on SAPS directly and potential impact on other initiatives, working through these now to mitigate. SME capacity continues as a key challenge for the project to manage.
- Industry engagement commenced for IDAM/IDX/PC

Release	Initiatives	Status	Key Points	Impacted Stakeholders
MAR-23	Integrating Energy Storage Systems [Initial]	Green	Deployment successful, awaiting MSGA registrations	Market Small Generation Aggregators
	SAPS MSRP Registration	Green	Software deployed, MSRP registration accepted from 17 th April	LNSP, FRMP, MP/MDP
MAY-23	SAPS	Red	Internal Testing late, program team is replanning and looking at options to maintain key dates	LNSP, FRMP, MP/MDP
	CDR (excluding LCCD)	Green	Performance concerns with complex API's, may impact some NFR's	Major retailers
	B2B v3.8 and other ICFs	Green	On Track for 30 th May	LNSP, FRMP, MP/MDP
AUG-23	Integrating Energy Storage Systems [ADC]	Green	Development proceeding	Aggregate Systems
	MSDR	Yellow	Metering exemptions go-live date being confirmed.	MC and MP/MDP
	Fast Frequency Response - Dispatch & Reg	Green	Initial release On Track	Generators, Market Customers
OCT-23	Fast Frequency Response	Green	Draft Tech Spec release for 11 April, Service commencement plan draft available 6 April	Generators, Market Customers
	5 Minute load profile	Green	1 October go-live date confirmed.	Market Customers / FRMP
	Increased MT PASA Information	Green	On track, procedures finalised, Tech Specs issued	Scheduled Generators
NOV-23	Metering Exemptions (MSDR)	Yellow	Effective Date TBC – subject to consultation	MC and MP/MDP
	CDR (LCCD)	Green	Procedure consultation to confirm 1 November effective date	FRMPs
JUN-24	Integrating Energy Storage Systems [Final]	Green	Procedure consultation in progress.	IRPs, NSPs, FRMP, MP/MDP, Vendors
JUN-25	Frequency Performance Payments	Green	Procedure consultation underway.	Generators, Market Customers

External Milestones



4. May Commencement Update

May 2023 commencement updates

SAPS, CDR pt 2, B2Bv3.8, ICFs

Key Date(s)	31 March SAPS MSRP Registration, 30 May Commencement				
Likely impacted stakeholders	DNSP, Retailers, MP/MDP				
Industry testing anticipated	Invitation Industry Testing for SAPS, Industry Testing for other components				
Overall status	Overall Release Status RED : B2B on track , CDR (LCCD) to be deferred to November. SAPS Testing Late.				
Procedures	Technical documentation	AEMO Development and Internal Testing	Industry readiness and Transition	Industry testing	Deployment and go-Live
<ul style="list-style-type: none"> Minor amendment consultation underway to delay CDR MSATS procedure effective date to 1 November 2023 based on risk of incorrect maintenance of LCCD with a staggered population approach,. <ul style="list-style-type: none"> Changes effective date of AEMO LCCD population logic and large 3 retailers LCCD population. All retailers proposed to populate LCCD from 1 November 2023. LCCD field remains in May 2023 r43 schema. Expedited consultation underway on SAPS. <ul style="list-style-type: none"> Addition of new report RM51 Clarify the descriptions for the RM43 and RM46 reports Republish the SLP MP Services as version 1.6 Amend the SLP MDP Services to reflect the preferred option to resolve the conversion of non-5-minute metering data as set out in AEMO's Final Report. 	<ul style="list-style-type: none"> Final aseXML r43 schema published 16/2 (AEMO's website) MSATS V49.0 released 24/2 incorporates changes for May scope 	<ul style="list-style-type: none"> AEMO Internal Testing late with Key UAT scenarios needing to be satisfied for Go-Live Criteria to be met Testing schedule has been impacted by test environment availability issues and delivery delays for some components 	<ul style="list-style-type: none"> AEMO readiness criteria for May components established, contingency approaches under consideration and presented to Implementation Forum Draft Industry Go-Live Plan scheduled for release 6 April 	<ul style="list-style-type: none"> 3 participants identified for SAPS Invitation Industry Test Invitation Industry Testing to support SAPS implementation is expected Industry testing for other components will be supported Environment refresh deferred from 11 April due to AEMO Non-production environment constraints 	<ul style="list-style-type: none"> SAPS MSRP registration material available 31 March 2023 with registration able to commence from 17 April Wholesale 25/5 and retail software 28/5 deployments planned SAPS, B2B go live 30 May 2023 CDR support for complex requests is supported from rule commencement , however some NFRs may not be met initially AEMO go-live Checkpoint 1/5 to commit readiness for 30 May commencement.

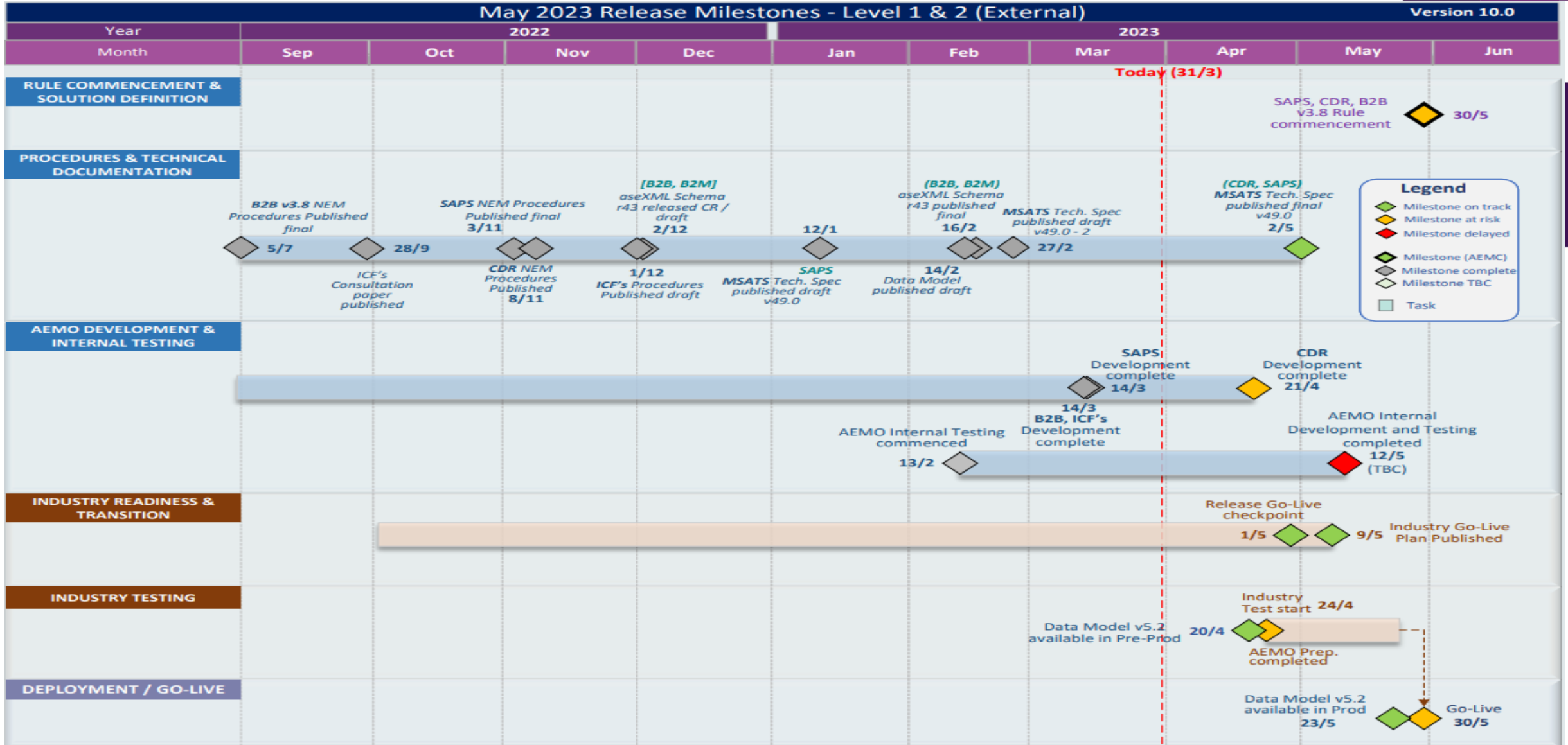
Relevant links

May 2023 – SAPS, CDR pt 2, B2Bv3.8, ICFs



May 2023 Release Milestones - Level 1 & 2 (External)

Version 10.0



Legend

- ◆ Milestone on track
- ◆ Milestone at risk
- ◆ Milestone delayed
- ◆ Milestone (AEMC)
- ◆ Milestone complete
- ◆ Milestone TBC
- Task

May Release Go Live Criteria Check Point

Initiative	Criteria	Participant Readiness	Current Status 3/4
SAPS	Solution supports SAPS processing and no regression to current NEM settlement process, (Disclosure of Defects to be addressed in Industry Test Period) AEMO Business Ready to Support	Optional adoption, no pre-requisite participant activity	RED AEMO testing Late, potential for UAT to overlap Industry testing
CDR (LCCD)	AEMO Solution Tested to procedures (Disclosure of Defects to be addressed in Industry Test Period)	No pre-requisite participant activity. November 23 procedural obligation (as per consultation)	Consultation to consider 1 November Procedure Effective Date. LCCD will not be populated until effective date.
B2B 3.8, ICF's, r43 Schema Release	AEMO Solution Tested to procedures (Disclosure of Defects to be addressed in Industry Test Period)	Individual Participant readiness to meet procedural requirements. Individual Participant readiness will not impact go live	Internal Testing on track.

May Release Contingency Options

May Release testing Components	Test completion
1	“Non SAPS” components – required for B2B, r43 Schema, LCCD
2	NEM Settlement with No SAPS activated
3	SAPS capability progression Non SAPS components plus all capability to support SAPS

At 1/5 checkpoint

May Release Scenario	Scenario	Approach and Implications
A	1,2 & 3 Successfully completed	All Components of May Release available for Industry testing and 30 May commencement. SAPS establishment and activation commence.
B	1&2 only successfully completed	“Non SAPS” components ready for Industry testing and 30 May commencement. AEMO to co-ordinate directly with intending SAPS participants on timing for pre go live testing and SAPS Activation
C	1 & 2 not Successfully completed	May release deferred, AEMO to advise rescheduled for Industry testing and Go-Live

5. Commencement Updates



March 2023 Update

Chris Muffett

March 2023 commencement - COMPLETE

Integrating Energy Storage Systems (IESS)

Key Date(s)	Initial Release 31 Mar 2023 – Small Generation Aggregators (SGAs) can participate in contingency FCAS markets
Likely affected stakeholders	Market Small Generation Aggregators – optional to take up FCAS
Industry testing anticipated	Industry testing available
Overall status	COMPLETE

Procedures	Technical documentation	AEMO development & internal testing	Industry readiness & transition	Industry testing	Deployment and go-live
<ul style="list-style-type: none"> Procedure changes to support SGA provision of FCAS have been completed 	<ul style="list-style-type: none"> No further Technical updates required for SGA release 	<ul style="list-style-type: none"> Development complete Internal testing complete 	<ul style="list-style-type: none"> No formal industry readiness or transition required. Readiness checkpoint to confirm go-live criteria performed 	<ul style="list-style-type: none"> Industry testing will be available for those SGAs that choose to provide FCAS. Testing Environment available from 01 Mar 2023 Program support via ITWG and Q&A sessions (if needed) 	<ul style="list-style-type: none"> Registration for contingency FCAS available for SGAs from 31 Mar 2023, in line with rule commencement Go-live plan published 16 Feb 2023. Go-live communications plan presented at Implementation Forum.

Relevant links
AEMC Integrating energy storage systems into the NEM
AEMO Register FCAS as a Small Generation Aggregator (SGA)
AEMO Integrating Energy Storage Systems project



May 2023 Update

Refer Agenda Item 4

Meghan Bibby



August 2023 Update

Chris Muffett

August 2023: IESS

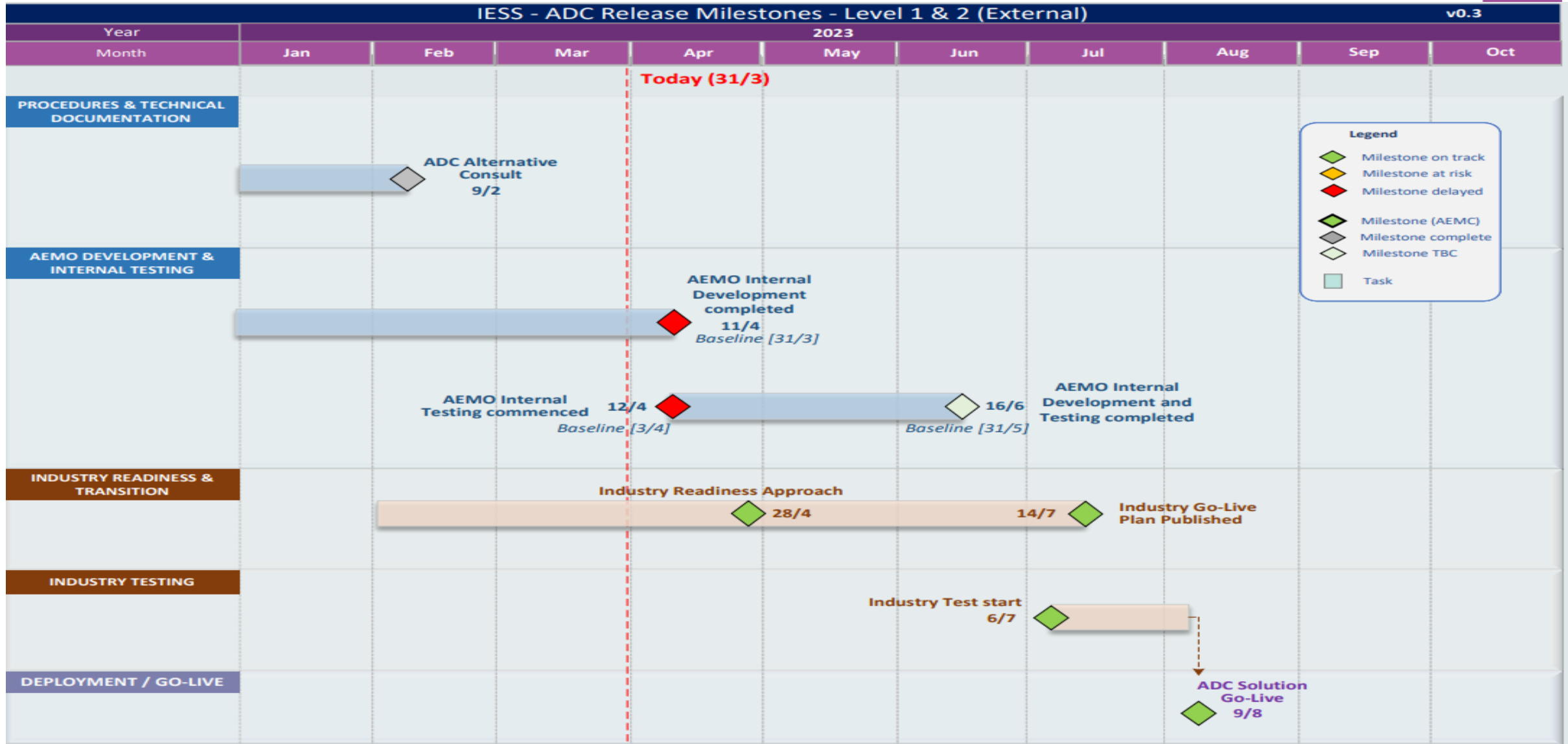
Integrating Energy Storage Systems (IESS) - Aggregated Dispatch Conformance

Key Date(s)	Aggregated Dispatch Conformance implementation 09 Aug 2023
Likely affected stakeholders	Aggregate systems, connecting NSPs, control system vendors/developers – optional to use aggregated dispatch conformance
Industry testing anticipated	Industry testing available
Overall status	ON TRACK

Procedures	Technical documentation	AEMO development & internal testing	Industry readiness & transition	Industry testing	Deployment and go-Live
<ul style="list-style-type: none"> Procedure changes to support aggregate dispatch conformance have been completed. 	<ul style="list-style-type: none"> Data Model 5.2 draft released. This release includes the updates required for ADC. No further technical updates required for ADC release 	<ul style="list-style-type: none"> Development in progress completion has been delayed for one component. Internal testing approach will be adjusted to accommodate this, with no expected impact to industry test readiness. Internal testing being planned. 	<ul style="list-style-type: none"> No formal participant industry readiness or transition required. Go-Live Criteria for AEMO solution and business operations being developed for Implementation Forum confirmation. 	<ul style="list-style-type: none"> Invitation industry testing will be available for those aggregate systems that choose to confirm in aggregate. Test environment expected to be available 06 Jul 2023, overlaps with FFR and MT PASA under consideration Program support via ITWG and regular Q&A sessions 	<ul style="list-style-type: none"> ADC go-live date confirmed for 09 Aug 2023.

Relevant links	
Integrating energy storage systems into the NEM AEMC	AEMO Indicative change program
AEMO Integrating Energy Storage Systems project	AEMO Integrating Energy Storage Systems Working Group

August 2023: IESS – Aggregated dispatch conformance





October 2023 Update

Chris Muffett

October 2023: FFR

Fast Frequency Response

Key Date(s)	Go-live October 2023
Likely impacted stakeholders	Generators, Market Customers, Traders
Industry testing anticipated	AEMO will be facilitating industry testing in the pre-production environment, and will involve exercising dispatch and settlement processes of the new services.
Overall status	Overall On Track , AEMO development in Progress, Procedure consultations in progress

Procedures	Technical documentation	AEMO Development and Internal Testing	Industry readiness and Transition	Industry testing	Deployment and go-Live
<ul style="list-style-type: none"> • MASS Finalised 7 October • Constraint and formulation guidelines consultation in progress, Draft published 9 March, Submissions due 12 April • Constraint Implementation Guidelines , no submissions received on draft, final versions to be published 20 April 	<ul style="list-style-type: none"> • Data Model changes released in v5.2 (March 2023). Tables to remain unpopulated until capability released. Implementation Date to be updated to reflect 5.2 release • Changes to bidding, dispatch and settlement interfaces incorporated in EMMS Technical Spec updates, draft to be released 11/4, following Mitigation Actions 	<ul style="list-style-type: none"> • Development in progress for Dispatch and Settlement updates • Emergent development schedule pressures, mitigations being undertaken with no impact currently expected to completion milestone • Overlap of development and integration testing reflects multiple deployments • Planning for Internal testing in progress 	<ul style="list-style-type: none"> • Service Commencement Plan draft released 6th April for Industry Feedback. ASTUG presentation scheduled for 17/4 • Commencement Plan outlines criteria considerations for service commencement • Technical go-live criteria under development and will be confirmed with Implementation forum 	<ul style="list-style-type: none"> • Proposed Industry testing approach provided to Implementation Forum, and ITWG. Approach and detail will continue to be developed via ITWG • Approach will involve end to end test of dispatch and settlements 	<ul style="list-style-type: none"> • Changes will be deployed to production to enable registration and submission of bids for new service • Timings to be reflected in Industry Go-Live plans with Draft approaches issued mid July

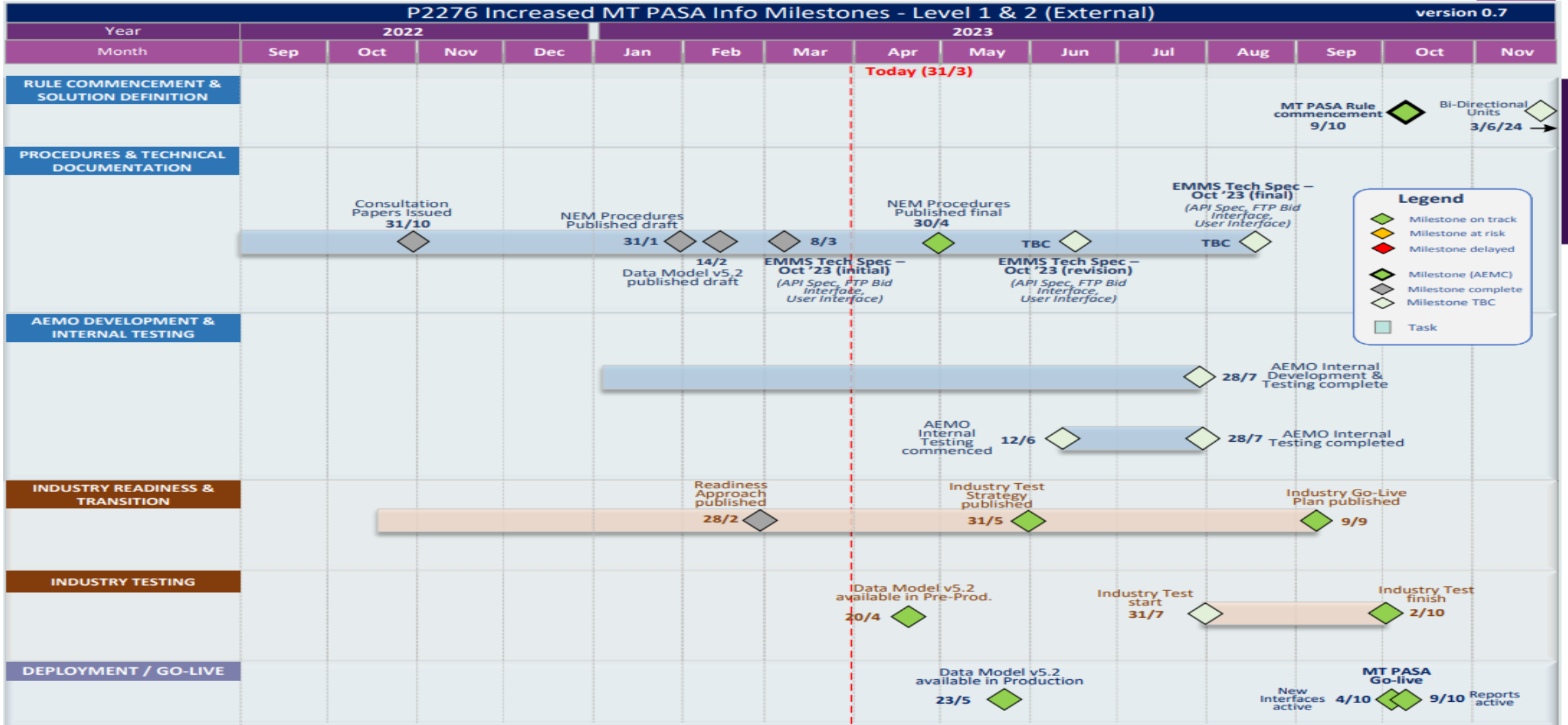
Relevant links

October 2023: Increased MT PASA Information

Increased MT PASA Information

Key Date(s)	Go-live October 2023				
Likely impacted stakeholders	Scheduled Generators				
Industry testing anticipated	Industry Testing in same timeframe as FFR, 5MLP				
Overall status	Overall On Track , AEMO development in Progress, Procedure consultations in progress				
Procedures	Technical documentation	AEMO Development and Internal Testing	Industry readiness and Transition	Industry testing	Deployment and go-Live
<ul style="list-style-type: none"> RSIG and Energy Adequacy Assessment guidelines consultation in progress, 7 submissions received, target final publication date 28/ 4 	<ul style="list-style-type: none"> Data model changes for MT PASA have been included in release 5.2 of data model. API interfaces to be provided to support transition from FTP delivery as optional capability EMMS Technical Specifications draft issued 8 /3, revision for minor corrections 11/4 	<ul style="list-style-type: none"> AEMO development commenced in line with overall delivery timeframes 	<ul style="list-style-type: none"> Capability for participants to provide updated information will be deployed 1 week prior to rule commencement to support participant compliance at rule commencement 	<ul style="list-style-type: none"> ITWG / Implementation Forum provided overview of Industry Testing approach and timeframe for MT PASA 	<ul style="list-style-type: none"> Deployment dates to be confirmed. Planned deployment 4/10 (note minor change) to allow updates to MT PASA information ahead of rule commencement. Reporting capability to be deployed 9/10
Relevant links					
Enhancing information on generator availability in MT PASA AEMC			AEMO NEM Reliability Forecasting Guidelines and Methodology Consultation		
AEMO Amendment of the Market Ancillary Service Specification (MASS) – Very Fast FCAS					

MT PASA Milestones and progress



October 2023: 5 Minute load profile [5MLP]

5MLP

Key Date(s)	Go-live October 2023
Likely impacted stakeholders	FRMPs, Market Customers
Industry testing anticipated	Industry Testing in same timeframe as FFR with Co-ordinated Settlement Runs
Overall status	Overall On Track , AEMO development in Progress

Procedures	Technical documentation	AEMO Development and Internal Testing	Industry readiness and Transition	Industry testing	Deployment and go-Live
<ul style="list-style-type: none"> Consultation completed as component of ICF060 	<ul style="list-style-type: none"> No updates to technical documentation required for implementation. Current interfaces and reports remain unchanged 	<ul style="list-style-type: none"> AEMO development in progress with eMDM main component for changes 	<ul style="list-style-type: none"> Readiness activities to be defined No transition requirements expected 	<ul style="list-style-type: none"> Industry Testing approach currently being scoped with ITWG Industry Testing will require generation of Settlement runs and will be co-ordinated with FFR activity 	<ul style="list-style-type: none"> 1 October 2023 is procedure effective date No industry deployment required to support 5MLP

Relevant links

[AEMO | Load Profiling Methodologies Consultation](#)



November 2023 Update

Meghan Bibby

November 2023: CDR Tranche 3 & CDR MSATS LCCD, Metering Exemptions

CDR, Metering Exemptions

Key Date(s)	Go-live November 2023 (TBC for MSATS LCCD & Metering Exemptions)
Likely impacted stakeholders	FRMP, MC, MP, DNSP, MDP
Industry testing anticipated	Industry Testing (TBC)
Overall status	Deployment and Procedure effective dates subject to consultation

Procedures	Technical documentation	AEMO Development and Internal Testing	Industry readiness and Transition	Industry testing	Deployment and go-Live
<ul style="list-style-type: none"> Minor amendment consultation underway to delay CDR MSATS procedure effective date to 1 November 2023 based on risk of incorrect maintenance of LCCD with a staggered population approach. <ul style="list-style-type: none"> Changes effective date of AEMO LCCD population logic and large 3 retailers LCCD population. All retailers proposed to populate LCCD from 1 November 2023. LCCD field remains in May 2023 r43 schema. Consultation commencing 12 April to agree MC process impact and establish procedure effective date for Metering Exemptions changes 	<ul style="list-style-type: none"> MSATS 49.1 Technical Specification to provide Metering Exemptions update 	<ul style="list-style-type: none"> Development planning in progress 	<ul style="list-style-type: none"> Transition requirements to be established in parallel with procedure consultation Transition of current exemptions included in scope 	<ul style="list-style-type: none"> Approach to be confirmed in line with establishment of effective dates 	<ul style="list-style-type: none"> Procedure effective dates subject to consultation. Alignment of dates to CDR Tranche 3 rule commencement is a key consideration.

Relevant links

[AEMO | Consumer Data Rights \(CDR\) MSATS Minor Amendment Proposal](#)



June 2024 Update

Chris Muffett

June 2024: IESS

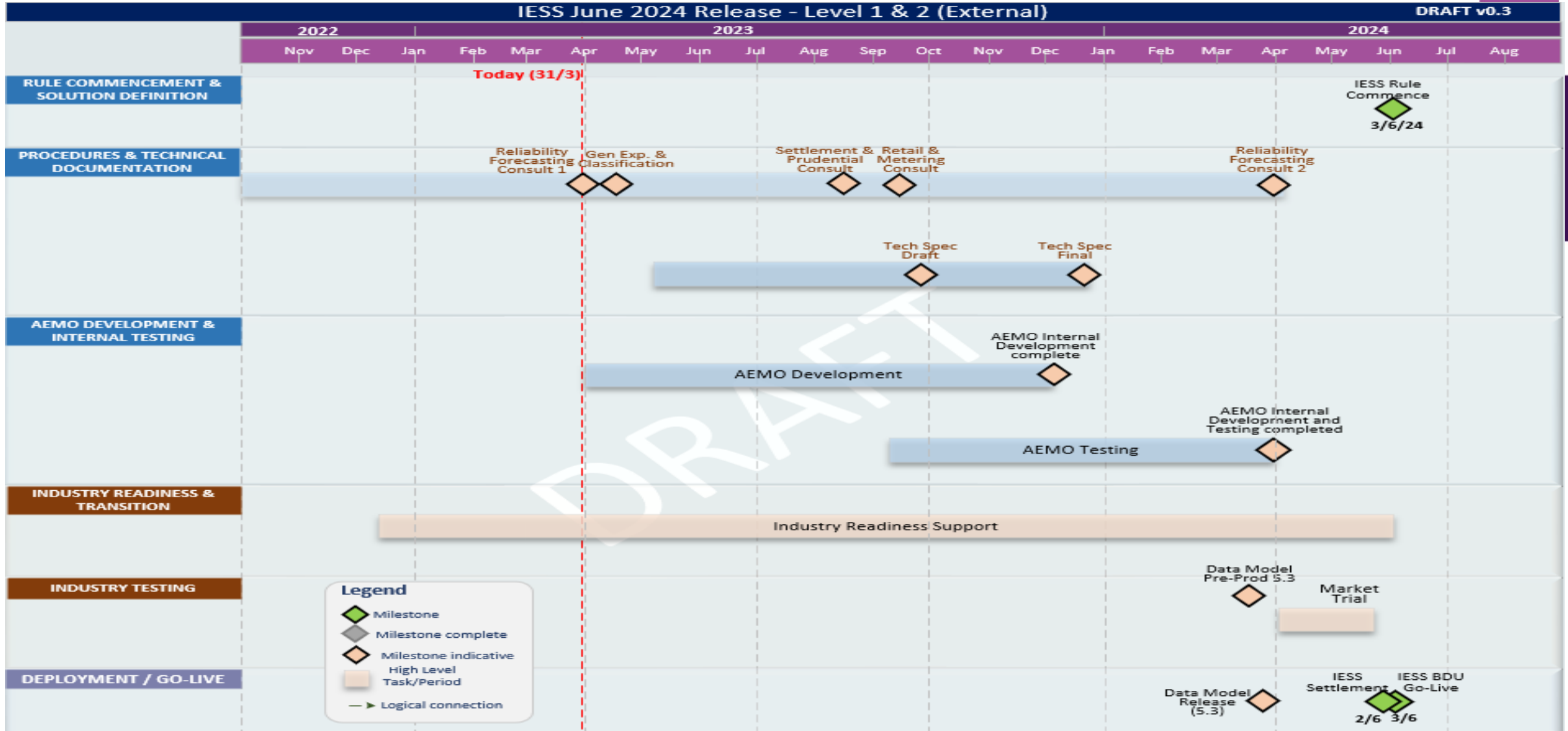
Integrating Energy Storage Systems (IESS)

Key Date(s)	<ul style="list-style-type: none"> NECR go-live proposed to be Sun 02 Jun 2024 IRP/BDU go-live Mon 03 Jun 2024
Likely affected stakeholders	<ul style="list-style-type: none"> Changes to 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, bidding system vendors/developers
Industry testing	Market Trial (TBC)
Overall status	Overall ON TRACK . Procedures development in progress. Assessing development and testing activities to confirm overall timeline

PROCEDURES	TECHNICAL DOCUMENTATION	AEMO DEVELOPMENT & INTERNAL TESTING	INDUSTRY READINESS & TRANSITION	INDUSTRY TESTING	DEPLOYMENT & GO-LIVE
<ul style="list-style-type: none"> Procedure change program established and on track Mix of standard and minor/administrative changes over broad range of procedures <p>Current consultations:</p> <ul style="list-style-type: none"> IESS retail electricity market procedures: Draft determination ~Mon 12 Jun Registration and Exemption Guide: Final determination ~Fri 14 Apr <p>Upcoming consultations</p> <ul style="list-style-type: none"> Prudentials – early May Dispatch Procedure - late May 	<p>Changes to:</p> <ul style="list-style-type: none"> MSATS technical specification EMMS technical specification MMS Data model aseXML schema (version release TBC) <p>Milestones:</p> <p>Publication of tech spec releases to be confirmed</p>	<ul style="list-style-type: none"> In planning stages, schedule being baselined. Scheduling constraints being addressed. AEMO requirements definition in progress. 	<ul style="list-style-type: none"> Overarching Industry Readiness Approach discussed with Implementation Forum 28 Feb 2023. Consequent industry readiness planning and implementation activities will occur from Q1 2023 to go-live. IESS settlement workshop held 21 Feb 2023 re changes affecting FRMPs. Workshop on BDU bidding and dispatch considerations held 21 Mar. Seeking further feedback on settlement & BDU changes via Implementation Forum. 	<ul style="list-style-type: none"> Timing, duration and coverage of market trial TBC. Market Trial plan will be developed in conjunction with the ITWG. Program support via ITWG and regular Q&A sessions 	<ul style="list-style-type: none"> AEMO submitted rule change request (Dec 2022) to align the NECR go-live with a NEM billing week (plus other implementation amendments). AEMC consultation paper Thu 02 Mar. Final determination expected ~Thu 04 May.

Relevant links
Integrating energy storage systems into the NEM AEMC
AEMO Indicative change program
AEMO Integrating Energy Storage Systems project
AEMO Integrating Energy Storage Systems Working Group

IESS– June 2024





June 2025 Update

Chris Muffett

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

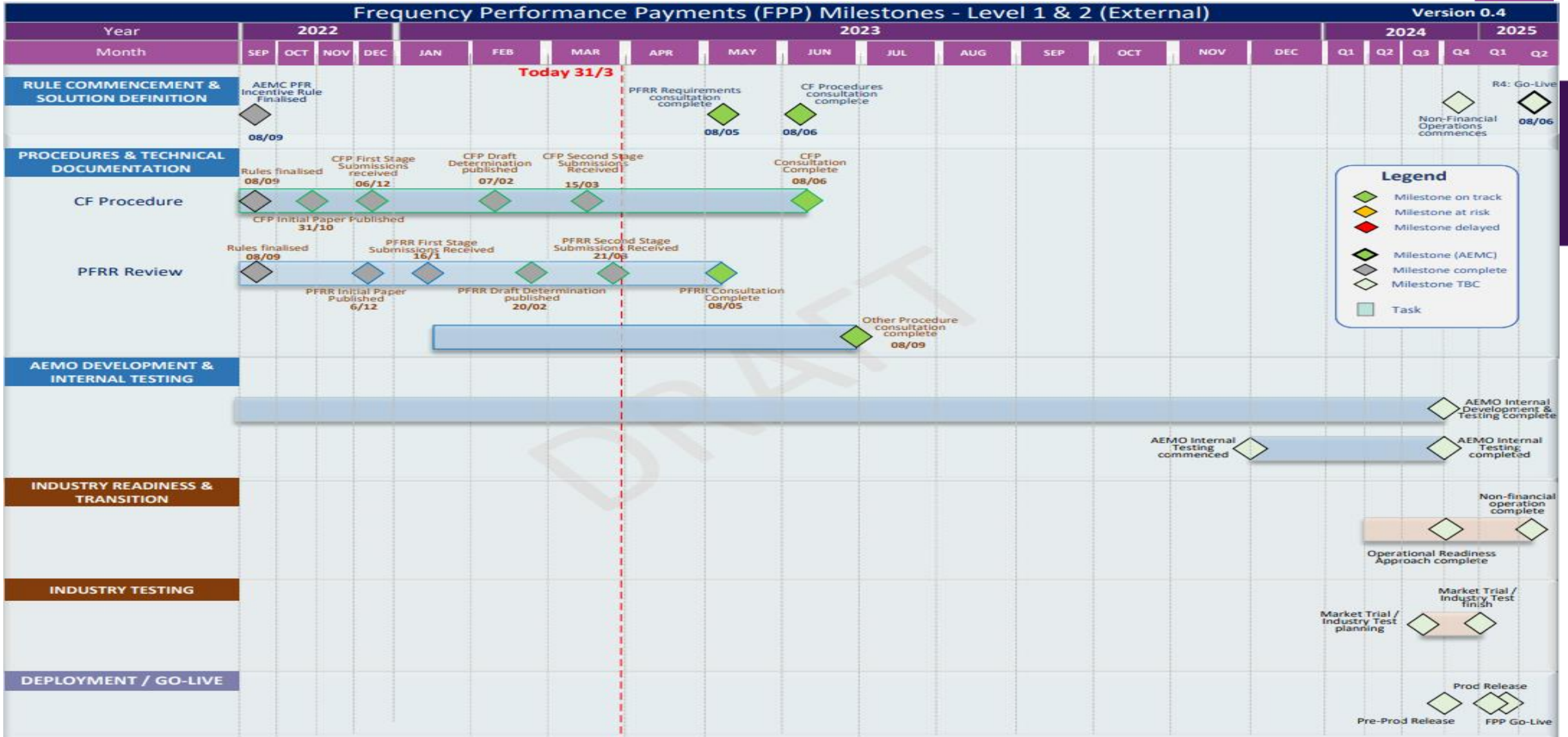
Procedures	Technical documentation	AEMO Development and Internal Testing	Industry readiness and Transition	Industry testing	Deployment and go-Live
<ul style="list-style-type: none"> Frequency Contribution Factor Procedure consultation in progress, submissions to draft closed 15/3 Frequency Response requirements consultation in progress, draft submissions closed due 21/3 Consultation workshops held 28/2, including technical sessions on the procedure and reporting 			<ul style="list-style-type: none"> Planned non financial trial to commence December 2024 		

Relevant links
AEMO Frequency Performance Payments project

FPP- June 2025

Frequency Performance Payments (FPP) Milestones - Level 1 & 2 (External)

Version 0.4



6. NEM2025 Forums Update

NEM Reform Forums update

Channel	Current focus	Next meeting
NEM2025 Electricity Wholesale Consultative Forum (EWCF)	<ul style="list-style-type: none"> The current focus is on regular updates for inflight reform IESS, FFR, FPP, MT PASA, and the Procedures Consultation Roadmap. Spotlight update on industry consultation on IDX/IDAM/PC. 	18 April 2023
NEM2025 Industry Testing Working Group (ITWG)	<ul style="list-style-type: none"> ITWG is progressing planning for SAPS Invitation Industry Testing and approach to industry testing for remainder of May release components. Approach to testing for Q3 and Q4 2023 releases discussed. 	27 April 2023
Electricity Retail Consultative Forum (ERCF)	<ul style="list-style-type: none"> This Forum maintains a watching brief on NEM Reform Program initiatives associated with metering and retail procedural impacts. NEM Reform scope focused on formal consultation progressing on retail and metering procedures under IESS and a spotlight update on industry consultation on IDX/IDAM/PC. 	24 April 2023
NEM2025 Implementation Forum	<ul style="list-style-type: none"> 2023 Releases – Progress and Deployment updates, including: <ul style="list-style-type: none"> IESS March release go-live confirmation May Release update – deliverables and testing Readiness Approaches for MT PASA, FFR, IESS Spotlight update on industry consultation on IDX/IDAM/PC. 	26 April 2023
NEM2025 Executive Forum	<ul style="list-style-type: none"> Dates ear marked. Agenda is being confirmed to ensure appropriate engagement. 	3 or 10 August 2023

7. NEM Reform Implementation Roadmap Update

Recap: The following changes have been identified as of February 2023

INCREMENTAL CHANGES (and action proposed)

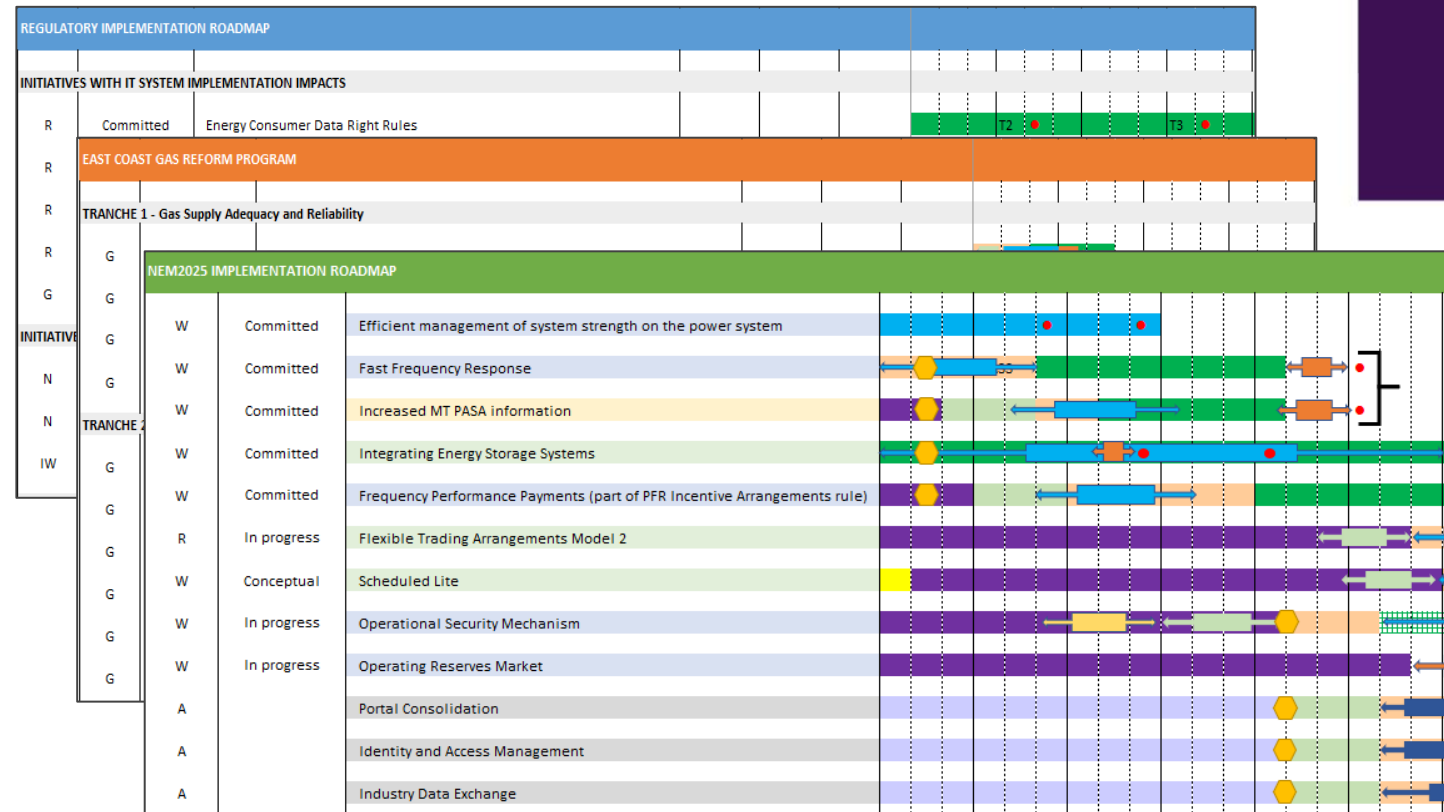
- **Fast Frequency Response** (remove 'Frequency Control' from name)
- **Frequency Performance Payments** (committed go-live)
- **Integrating Energy Storage Systems** (rule change requests submitted clarifying implementation requirements – no action at this time)
- **Dispatch / Bids & Offers / Constraints Target State** (include key development checkpoints)
- **FRC Target State** (reflect internal AEMO scoping processes and subsequent initiation)
- **ST PASA Replacement** (committed go-live, include additional procedure/guideline consultation)
- **IDAM / IDX / PC** (update to reflect AEMO workplan including provision for planning activities, process and use case development, gap analysis, ongoing industry consultations, target state development)

MATERIAL CHANGES (change in timeline or scope)

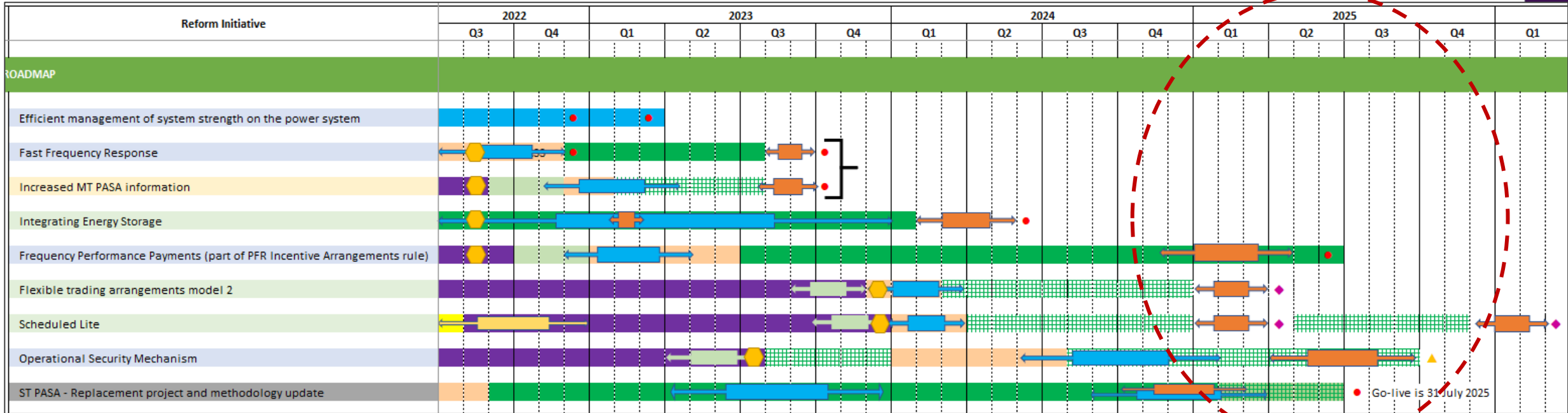
- **Operational Security Mechanism** (timeline)
- **Operational Security Mechanism** (change in timeline or scope)
- **Flexible Trading Arrangements (Model 2)** (timeline)
- **Scheduled Lite** (timeline)
- **Capacity Mechanism** (timeline / scope)
- **Congestion Management Mechanism** (timeline / scope)
- **DER Initiatives** (timeline / scope)
- **Data Strategy Initiatives** (timeline)

NEM Reform Implementation Roadmap (v2) developed

- Various incremental / material changes made to initiatives as per the RDC collaborative workshop
 - Removal of Turn-up Services
- TA initiatives split in two to reflect likely implementation requirements
 - 1) Enhanced information; and 2) Congestion Relief Market & Priority Access Model
- General restructure of initiatives within the Roadmap consistent with committed or estimated go-live dates
- Stage gates updated
- Removal of non NEM Reform Program initiatives implemented in 2022
- New East Coast Gas Reform Roadmap



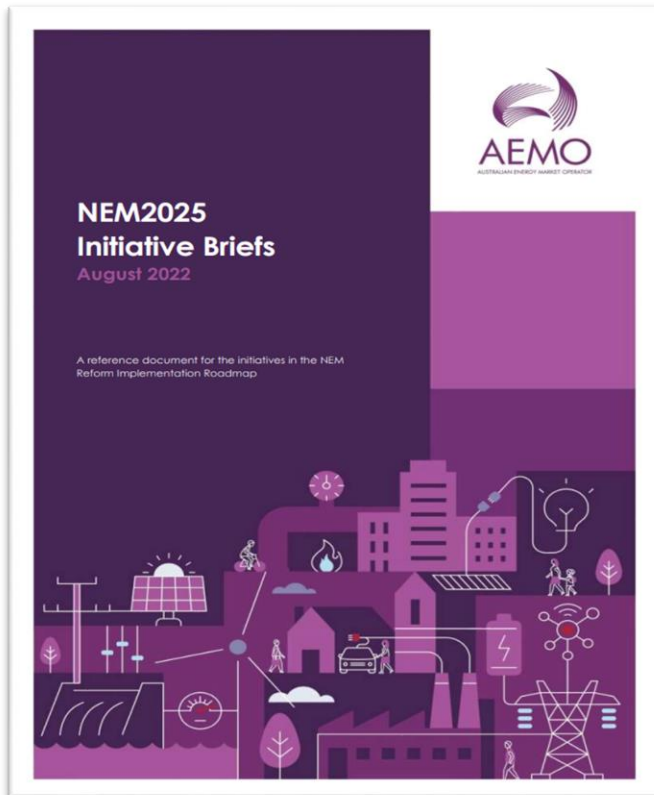
2025 on the surface remains a congested delivery year



- AEMO and RDC members noted at our February collaborative workshop, and subsequent meetings, that 2025 will be subject to:
 - Timing and outcomes (e.g., scope) from the AEMC rules consultation process on key initiatives (including OSM, FTA Model 2, Scheduled Lite)
 - Future assessment of opportunities to bundle, sequence and prioritise implementation, or where possible adopt a phased implementation

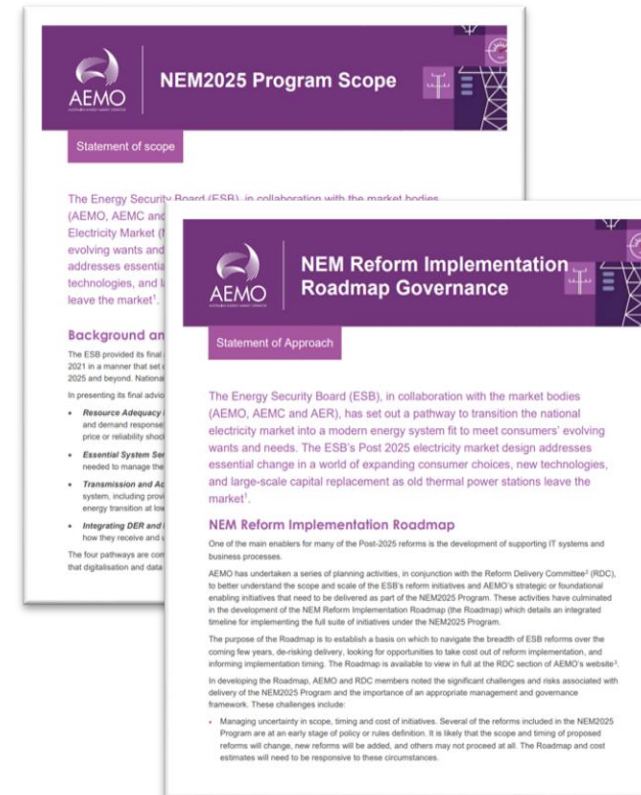
Updates to supporting artifacts

INITIATIVE BRIEFS



- Various edits to initiatives capturing incremental and material changes including for example:
 - Scope of CIS and T&A reform
 - Timing of next steps
- Removed Turn-up Services
- Removed indicative scheduled for initiatives (captured in the Roadmap as well as via milestone updates)

PROGRAM SCOPE & GOVERNANCE

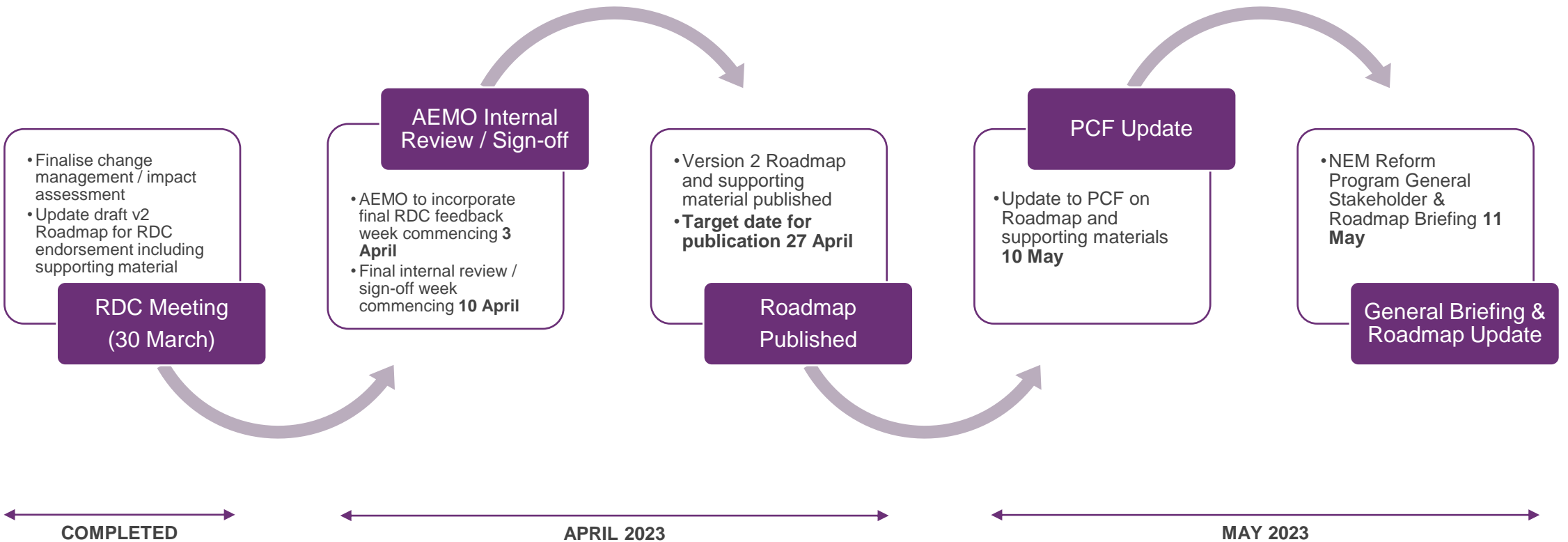


- **Program Scope:** Minor edits to inline with changes to Initiative Briefs
- **Governance:** Updates to stage gate timing (see Section 5)

Addendum to Gate 1 Business Case acknowledging removal of Turn-up Services in development

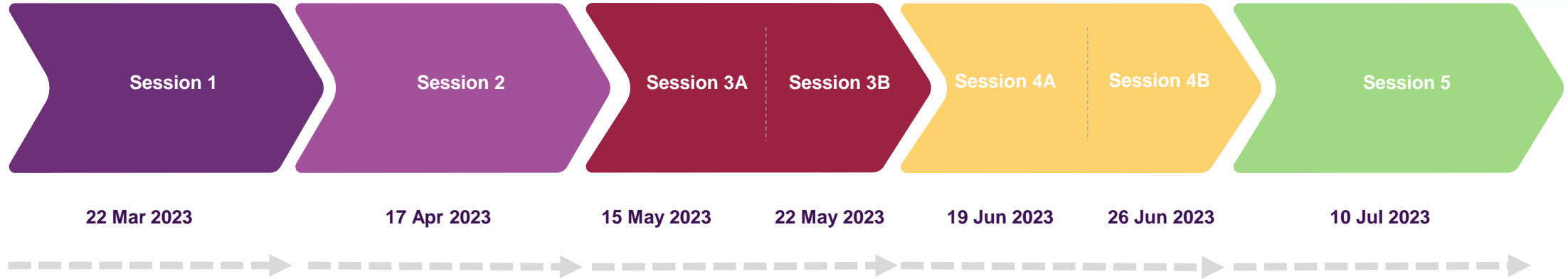
Next Steps

- AEMO and the RDC will continue to review for efficiency opportunities including bundling, sequencing and prioritisation of initiatives, and opportunities to take cost out of industry



8. Foundational & Strategic Initiatives

Industry Consultation



Session	Introduction – IDX, IDAM & PC	Discovery Workshops – IDAM and PC	Target State Discussion	Transition Strategy	Conclusions and Business Case
Agenda*	<ul style="list-style-type: none"> Introduce initiatives Outline workshop plan 	<ul style="list-style-type: none"> Pain points and benefits Survey 	<ul style="list-style-type: none"> Concept walkthrough 	<ul style="list-style-type: none"> Transition Strategy Impacts & Benefits 	<ul style="list-style-type: none"> Summary Options
Audience		 	 	 	

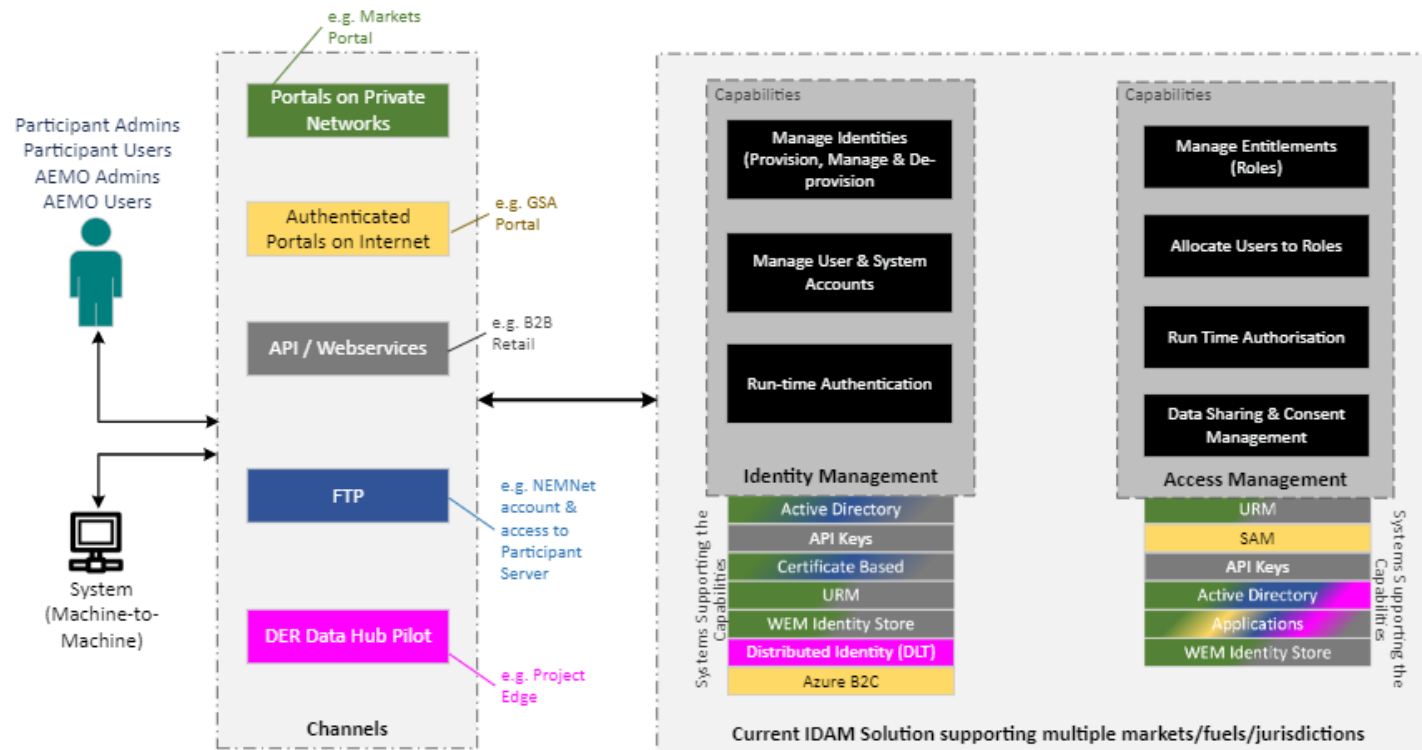
Identity and Access Management Approach


Identity and Access Management: A unified mechanism to authenticate and authorise external identity when accessing AEMO services, consolidating and improving overall cyber security controls.

Problem Statement:

AEMO's Identity and Access Management (IDAM) services are disparate, requiring users to retain multiple sets of credentials in order to access AEMO business services. The legacy IDAM services do not implement best practices in cyber security controls (e.g. multifactor authentication) and are insufficient to meet new industry obligations introduced under the SOCI Act.

IDAM Current State Context Diagram:



 Note: Channels & IDAM Stores illustrated in this slide are indicative only and not the finite list

Following areas will be explored during the IDAM feasibility phase.

In Scope	Out of Scope
<ul style="list-style-type: none"> ✓ NEM, WEM and Gas involving AEMO external interactions 	<ul style="list-style-type: none"> × Network layer security
<ul style="list-style-type: none"> ✓ External Identities including: <ul style="list-style-type: none"> - Registered Participants - Non-registered Participants - Potential Participants - Service Providers 	<ul style="list-style-type: none"> × Control systems communications / interactions × Direct device communications /interactions
<ul style="list-style-type: none"> ✓ External System Accounts Interactions via all supported channels (current & future) 	

Recap of discussion at Introduction session

Type	Feedback	AEMO's initial response
Subject matter	The need to facilitate formal data sharing for minor jobs or minor programs, instead of sharing information via email	We will look at an optimal secure capability for the communication of data between participants that allows you to leverage authentication to know that you're talking to the right party. The point has been noted as a very relevant consideration for the consultation.
Consultation approach	Is the intent that the business case will define the preferred option for each initiative?	The expectations is that we will land on a recommendation. We do not have decision making rights however we will be in a position to say what we think is the best way forward, and the rationale for that.
	Is AEMO looking to obtain a high-level participants impact assessments to allow and inform the business case?	Yes, we are looking at options noting stakeholder feedback suggesting avoiding a full costing exercise.
	How will AEMO ensure adequate feedback loops in between business and technical sessions?	The workshop model has been drafted to best facilitate a balance between the desire for an efficient consultation process and allowance for sufficient engagement across business and technical working groups. Each workshop has been assessed for parallel vs sequential execution along with opportunities for out of cycle feedback. The session 2 workshop is intended to provide much of the technical and business discovery inputs to help validate these assumptions and further shape the session timing and agenda where required.
Administrative	Each organisation should provide point of contact (one voice) for the duration of the consultation period.	Point taken on board. Where participants have nominated multiple focus group members, they are asked to indicate a primary contact.
	Will there be a webpage for the project?	Yes. Link to page to be shared with participants.
	Are the Discovery Workshops In-person and Online meetings or only In-Person ?	We're noting support for a hybrid approach and considering making facilities available in Melbourne to attend in person. Nominated participants are asked to indicate if they wish to attend in person.

Next steps: Discovery Workshop for IDAM and PC on 17 April

- Materials including workshop questions will be shared by AEMO in advance of the meeting
- Focus Group members are asked to prepare for the workshop as follows:

IDAM and PC considerations:

- Industry pain points associated with current state
- Benefits associated with resolution of pain points

Administrative items

- RSVP to calendar invite
- Indicate to us
 - Primary point of contact for your organisation
 - If you wish to attend in person in Melbourne – “first come first served”

9. Upcoming Engagements

Upcoming Engagements

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

May						
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28	29	30	31			

June						
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July						
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Legend
Program forums
NEM2025 Program Consultative Forum
Reform Delivery Committee
Reform Delivery Committee - Collab W.
Implementation Forum
Electricity Wholesale Consultative Forum
Electricity Retail Consultative Forum
Industry Testing Working Group
AEMO Consumer Forum
All Stakeholder NEM Reform and Roadmap briefing
Initiative specific meetings
NEM Reform Foundational and Strategic initiatives
Other
National 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.

8. 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 regarding proposed reforms or other initiatives, all participants agree to adhere to the CCA at all times and to comply with this Protocol. Participants must arrange for their representatives to be briefed on competition law risks and obligations.

Participants in AEMO discussions **must**:

- Ensure that discussions are limited to the matters contemplated by the agenda for the discussion
- Make independent and unilateral decisions about their commercial positions and approach in relation to the matters under discussion with AEMO
- Immediately and clearly raise an objection with AEMO or the Chair of the meeting if a matter is discussed that the participant is concerned may give rise to competition law risks or a breach of this Protocol

Participants in AEMO meetings **must not** discuss or agree on the following topics:

- Which customers they will supply or market to
- The price or other terms at which Participants will supply
- Bids or tenders, including the nature of a bid that a Participant intends to make or whether the Participant will participate in the bid
- Which suppliers Participants will acquire from (or the price or other terms on which they acquire goods or services)
- Refusing to supply a person or company access to any products, services or inputs they require

Under no circumstances must Participants share Competitively Sensitive Information. Competitively Sensitive Information means confidential information relating to a Participant which if disclosed to a competitor could affect its current or future commercial strategies, such as pricing information, customer terms and conditions, supply terms and conditions, sales, marketing or procurement strategies, product development, margins, costs, capacity or production planning.

Appendix B: Go Live Criteria Management

NEM 2025 Reform Program

Industry Readiness principles

1. All NEM2025 Initiatives will have an established readiness approach to support participant implementation and the criteria against which go-live decisions will be made. Readiness to Go-Live decisions are to be made on an Initiative basis
 1. Approach to Initiative Readiness will be documented in Initiative Readiness Approach
2. Readiness Criteria will be reported to Industry transparent and consistent manner, allowing for difference in level of detail and emphasis for scale and impact of individual initiatives
3. Initiative readiness will address both the implementation of the initiative and the NEM continuing to operate with integrity
4. AEMO will be responsible for their operational readiness to support initiatives at go live and the readiness of systems upgrades required
5. Market participants will be responsible for their own preparations and readiness for those initiatives that impact their business. The AEMO program will facilitate and support those preparations as a component of the program delivery in-line with agreed readiness approach
6. Where individual initiatives are implemented at the same time, readiness aspects should reflect the combined delivery impact of those initiatives

NEM 2025 initiative readiness assessment principles

- External Milestone reporting to provide guidance to Industry Participants regarding Initiative progress
 - Once baselined, a proposed shift to Milestones will require Industry Impact assessment
- Initiative Readiness Criteria will be established for each initiative addressing Solution, AEMO and Industry aspects:
 - Criteria and contingency approaches will consider the optionality and complexity of initiatives
 - Implementation forum will be point of industry engagement for development and management of criteria
 - Contingency planning and risk mitigation approaches are to be applied against criteria to provide AEMO readiness assessment to industry
 - Contingency options to include rule change to commencement date to maintain integrity of NEM operations
 - Progressive assessment of readiness criteria and contingency options must take into account timeframe for option implementation
 - Where Participant readiness, or completion of participant activity is considered a “go-live” criteria, participants reporting will be required to support assessment and status (Mandatory)
 - Participant readiness reporting to be considered where lack of participant readiness would impact smooth operation of market and Business functions, although would not halt rule implementation (Desirable)
 - Readiness Criteria (in the case of service introduction) may distinguish technical/ solution readiness and service introduction criteria
- Initiative Readiness checkpoint (Solution, AEMO Business & IT and where relevant Participant) prior to the scheduled commencement of the Industry Test / Market Trial period to provide participant certainty on readiness and implementation timings



For more information visit

aemo.com.au