

# NEM Reform Program Consultative Forum

Meeting #10  
9 August 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	Topic	Presenter
1	1:00-1:05pm	<b>Welcome</b>	Chris Muffett
2	1:05-1:10pm	<b>Actions &amp; Feedback from Previous Meeting</b>	Chris Muffett
3	1:10-1:25pm	<b>Program &amp; Release Update</b>	Rowena Leung & Jim Agelopoulos
4	1:35-1:45pm	<b>Spotlight</b> • August: IESS (ADC)	Luke Barlow
5	1:45-1:55pm	<b>Discussion</b> • October: FFR	Carla Ziser
6	1:55-2:10pm	<b>June 2024: IESS</b>	Luke Barlow
7	2:10 – 2.20pm	<b>June 2025: FPP</b>	Oliver Derum
8	N/A	<b>Noting – Commencement Updates</b> • October: MT PASA, 5MLP • November: CDR, Metering Exemptions	N/A - Taken as read

#	Time	Topic	Presenter
9	2:20-2:25pm	<b>Foundational &amp; Strategic Initiatives</b> • IDX IDAM PC	Ulrika Lindholm & Andrew Bell
10	2:25-2:30pm	<b>NEM Reform Forums Update</b> • Executive Forum	David Reynolds
11	2:30-2:45pm	<b>NEM Reform Implementation Roadmap Update (RDC Update 02 AUG)</b>	Lance Brooks
12	2:45-2:55pm	<b>Industry Risk</b>	David Reynolds
13	N/A	<b>Upcoming Engagements</b> • Fee Consultation Update	N/A - Taken as read
14	2:55-3:00pm	<b>General Questions and Other Business</b>	Chris Muffett

## 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

(Item = Meeting # – Agenda # – Reference)

Item	Topic	Action	Responsible	Status
9.4.0.1	Industry Risk Register	Participants to provide their initial feedback on the Industry Risk Register approach by emailing NEMReform@aemo.com.au.	AEMO	Closed
9.4.0.2	Industry Risk Register	AEMO to update industry risk descriptions to better reflect participant risk.	AEMO	Closed

# 3. Program & Release Update

# Program Update

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

- August release (FFR and IESS ADC) 2023 on track for respective go-lives.
- MT PASA UAT successfully completed with 100% execution.
- FPP functional and technical workshops now completed.

Key areas of challenge

- IESS June 2024 remains red, replanning in the process of being finalised.
- IDAM/IDX/PC progressing with industry consultation, noting feedback from participants requires adjustment to the program.

Release	Initiatives	Previous Status	Current status	Key Points	Impacted Stakeholders
AUG-23	Integrating Energy Storage Systems [ADC]	Amber	Green	ADC Industry test started 14 July, no outstanding Industry Test issues, on Track for 9 August go-live.	Aggregate Systems
	Fast Frequency Response - Dispatch & Reg	Amber	Green	On Track for 9 <sup>th</sup> August registration commencement and commencement of Industry Testing.	Generators, Market Customers
OCT-23	Fast Frequency Response	Amber	Amber	Industry test start date remains on track for 17 August. Amber status is due to risks existing in testing schedule compression for Settlements component.	Generators, Market Customers
	5 Minute load profile	Green	Green	Project progressing to schedule.	Market Customers / FRMP
	Increased MT PASA Information	Green	Green	Project progressing to schedule.	Scheduled Generators
NOV-23	Metering Exemptions (MSDR)	Green	Amber	Environment and integration issues impacting schedule. Participant readiness raised in procedures consultation and will be addressed with those participants individually. Impacts for industry readiness raised through ERCF or Implementation Forum.	Retailers, MC and MP/MDP
	CDR (LCCD)	Green	Green	Project progressing to schedule.	FRMPs
JUN-24	Integrating Energy Storage Systems [Final]	Red	Red	Development delays and resource issues impacting schedule. Schedule and deliverables updated to support participant transition and 2/3 June 24 commencements. Project plan has been developed which achieves the June Go-Live date, some final issues are being resolved before project plan is baselined. Status will be updated once baselined.	IRPs, NSPs, FRMP, MP/MDP, Vendors
JUN-25	Frequency Performance Payments	Green	Green	Functional and Technical workshops well progressed. Update on participant feedback to 30 June participant impact and development timeline workshop in this pack.	Generators, Market Customers



# 4. Spotlight



# August 2023 IESS (ADC) Update

Luke Barlow

# August 2023: IESS

## Integrating Energy Storage Systems (IESS) - Aggregated Dispatch Conformance

<b>Key Date(s)</b>	Aggregated Dispatch Conformance implementation <b>09 Aug 2023</b>
<b>Affected stakeholders</b>	Aggregate systems, connecting NSPs, control system vendors/developers – optional to use aggregated dispatch conformance
<b>Industry testing anticipated</b>	Industry testing available
<b>Overall status</b>	<b>Green:</b> On track for go-live on Wed 09 Aug 2023

Procedures	Technical documentation	AEMO development & internal testing	Industry readiness & transition	Industry testing	Deployment and Go-Live
<ul style="list-style-type: none"> <li>Procedure changes to support aggregate dispatch conformance have been completed.</li> </ul>	<ul style="list-style-type: none"> <li>Data Model 5.2 released to production 23/5. This release includes the updates required for ADC.</li> <li>No further technical updates required for ADC release.</li> </ul>	<ul style="list-style-type: none"> <li>AEMO development completed</li> <li>Internal testing complete.</li> </ul>	<ul style="list-style-type: none"> <li>No formal participant industry readiness or transition required.</li> <li>Go-Live Criteria for AEMO solution and business operations presented to Implementation Forum.</li> </ul>	<ul style="list-style-type: none"> <li>Invitation industry testing was available for BESS and the two facilities that have ADC-like arrangements.</li> <li>Info session on testing was held 15 Jun 2023, supported by 1to1 conversations with key participants.</li> <li>Test environment (pre-production) was made available Fri 14 Jul 2023.</li> <li>Program support has been via ITWG, mailbox and regular Q&amp;A sessions.</li> </ul>	<ul style="list-style-type: none"> <li>ADC go-live date confirmed for 09 Aug 2023.</li> <li>Final Go-live plan published Fri 14 Jul.</li> <li>No feedback received to date.</li> </ul>

### Relevant links

[AEMC | Integrating energy storage systems into the NEM](#)

[AEMO | Indicative change program](#)

[AEMO | Integrating Energy Storage Systems project](#)

[AEMO | IESS Aggregated Dispatch Conformance Participant Toolbox](#)



# 5. Discussion



# October 2023 FFR Update

Chris Muffett

# October 2023: FFR

## Fast Frequency Response

<b>Key Date(s)</b>	Go-live October 2023
<b>Likely impacted stakeholders</b>	Generators, Market Customers, Traders
<b>Industry testing anticipated</b>	AEMO will be facilitating industry testing in the pre-production environment, and will involve exercising dispatch and settlement processes of the new services.
<b>Overall status</b>	Overall <b>AMBER</b> , AEMO Phase 1 on track for Industry test and registrations (9/8) Phase 2 (Settlements) Internal Testing Amber, with recovery 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"> <li>• MASS Finalised 7 October</li> <li>• Constraint and formulation guidelines final guidelines published on 22 June 2023</li> <li>• Constraint Implementation Guidelines was finalised on 20 April</li> <li>• All Procedure and guidelines finalised</li> </ul>	<ul style="list-style-type: none"> <li>• Data Model 5.2 in production 23<sup>rd</sup> May</li> <li>• Latest version of EMMS Technical Spec updates released 19/5</li> <li>• No further updates to technical documentation planned</li> </ul>	<ul style="list-style-type: none"> <li>• AEMO Internal testing has successfully completed to for Phase 1 of FFR Industry Test (Registration and Dispatch)</li> <li>• Final release testing at risk due to environment stability. Scheduled to complete 11/8 recovery to support Industry Test requirements</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-registration assessments in progress</li> <li>• Registration guidelines available</li> </ul>	<ul style="list-style-type: none"> <li>• Industry Test Approach and detail timelines provided via ITWG</li> <li>• Industry Testing to commence in line with registration of service providers from 9/8</li> </ul>	<ul style="list-style-type: none"> <li>• Changes will be deployed to production to enable registration and submission of bids for new service</li> <li>• Draft Go-Live Plan issued 24 July</li> </ul>

### Relevant links

# Go-live criteria management: Industry checkpoint for August 2023 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	<b>FAST FREQUENCY RESPONSE – REGISTRATIONS (09 Aug 2023):</b> Eligible providers can register to participate in VF FCAS	
CRITERIA	DESCRIPTION	STATUS: <b>GREEN</b>
<b>Go-live criteria</b>	<ul style="list-style-type: none"> <li>AEMO solution tested in-line with requirements for enabling interested, eligible participants to register for VF FCAS, and commence Industry Testing</li> <li>AEMO business ready to support VF FCAS registration.</li> </ul>	<ul style="list-style-type: none"> <li>AEMO Internal Testing completed, on track to support FFR Industry Test</li> <li>All business readiness preparations are completed or on target for completion for 9/8 with business support for participant registration volumes being monitored</li> <li>On track to commence registrations for FFR from 9 October</li> </ul>
	Optional participation for interested, eligible providers i.e. participant readiness activity is not a pre-requisite for go-live.	n/a
CONTINGENCY	Defer registration for VF FCAS until go-live criteria are met.	No current indication that contingency will be needed.

# Fast Frequency Response Go-Live

## for market commencement on 9 October

- An Industry Go Live Plan (Final) that covers VF FCAS market commencement on 9 Oct 2023, will be published on 1 Sep 2023. Will include approach for decision on Market Readiness
- Indicative Go Live criteria below with Status checkpoint to be provided **30 July**:

INITIATIVE	FAST FREQUENCY RESPONSE – Market Start (09 October 2023): Eligible providers can register to participate in VF FCAS	Status As At 30 July <b>Internal Testing Amber</b>
CRITERIA	DESCRIPTION	
Go-live criteria	<ul style="list-style-type: none"> <li>• <b>Solution readiness:</b> AEMO solution tested in-line with requirements and available for Industry Test – No major outstanding Defects without remediation</li> <li>• <b>AEMO Business Readiness:</b> AEMO business ready to support VF FCAS market commencement from</li> <li>• <b>Market Readiness:</b> Sufficient participants registered to provide service</li> </ul>	<ul style="list-style-type: none"> <li>• Internal Testing In Progress, Amber against schedule with planned recovery</li> <li>• AEMO business activities scheduled and on track</li> <li>• Registration to commence 9/8, pre-registration assessments in progress</li> <li>• Industry Go-Live Plan (draft) release 24/7</li> </ul>
	Optional participation for interested, eligible providers i.e. participant readiness activity is not a pre-requisite for go-live.	
CONTINGENCY	Defer commencement of VF FCAS markets until go-live criteria are met, including deferral of solution implementation for Solution Readiness Criteria AEMO Business Readiness and Market Readiness will result in deferral of market start	<ul style="list-style-type: none"> <li>• No current indication contingency will be required- noting testing schedule pressures</li> <li>• Final Assessment of Market Readiness based on production 7 day pre-dispatch</li> </ul>

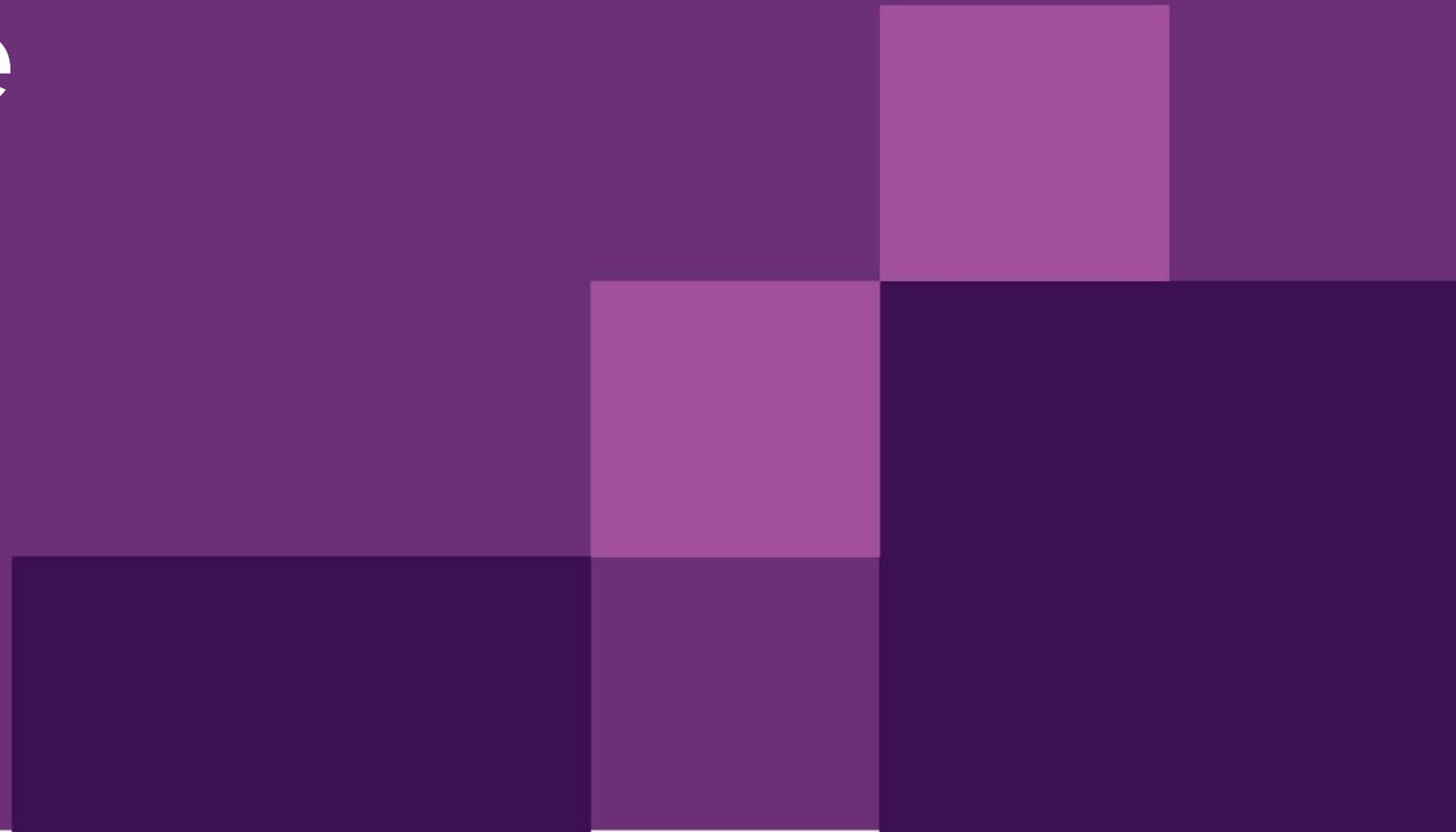


**6. June 2024**

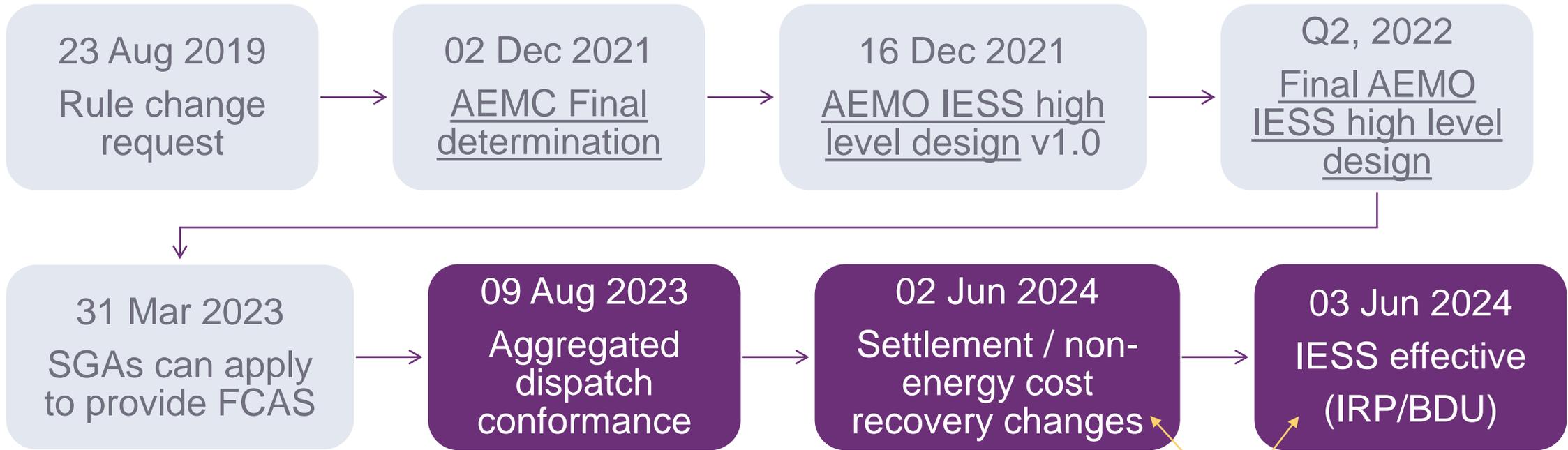


# June 2024 IESS Update

Luke Barlow



# BACKGROUND: IESS high-level Timeline



This discussion relates to:  
 (a) IESS settlement changes  
 (b) IESS BDU changes

<b>SGA</b>	Small generation aggregator
<b>FCAS</b>	Frequency control ancillary service/s
<b>IRP</b>	Integrated resource provider
<b>BDU</b>	Bidirectional unit

**REFERENCES**

- [AEMC IESS rule change](#)
- [AEMC Implementing IESS rule change](#)
- [AEMO IESS High Level Design & Implementation Strawperson](#)
- [AEMO IESS Participant Toolbox](#)



# IESS June 2024 participant support

## SETTLEMENT - 02 JUN 2024

- Most participant support elements defined and timing confirmed (see next slide)
- Receiving feedback on transition period and any further aspects of participant support needs
- At Implementation Forum (Tue 29 Aug), AEMO to confirm transition elements and participant support needs taking account of feedback.

## BDU - 03 JUN 2024

- Final BDU design confirmed at information session Mon 24 Jul
- Information pack distributed Mon 31 Jul
- Most participant support elements defined and timing confirmed (see next slide)
- Implementation discussions ongoing via Implementation forum.

# I ESS June 2024 participant support

DATE	DELIVERABLE	DESCRIPTION
3/8/2023	EMMS Tech Spec <b>Initial draft</b>	<ul style="list-style-type: none"> <li>Functional overview of changes to be implemented for IESS June 2024</li> </ul>
7/8/2023	MSATS Tech spec <b>draft*</b>	<ul style="list-style-type: none"> <li>Updates to MSATS CRs, validations and reports and RM Reports changes for IESS June 2024</li> </ul>
13/9/2023	EMMS tech spec <b>draft*</b> - Based on AEMO Detail Design at level to support commencement of Participant development	<ul style="list-style-type: none"> <li>Settlement interface changes</li> <li>Interface updates for Bidding / Dispatch in support of BDU model E.g., API, FTP, Web interface, non-DM reports</li> </ul>
11/9/2023	Data Model 5.3 specification – <b>Initial Draft*</b> Based on AEMO Detail Design	<ul style="list-style-type: none"> <li>Data model definition for structures introduced for IESS June in EMMS Data Model 5.3</li> <li>Settlement Table Mapping for transition support</li> </ul>
9/10/2023	Data Model 5.3 specification – <b>Draft*</b> Based on AEMO Detail Design at level to support commencement of Participant development	<ul style="list-style-type: none"> <li>Version that AEMO development will be based on.</li> <li>High degree of certainty for Participant development/planning</li> </ul>
15/12/23	Settlement Participant Support Environment	<ul style="list-style-type: none"> <li>Static settlement data examples of EMMS Data model 5.3 – including transitions supported</li> </ul>
22/01/24	BDU Participant Support Environment	<ul style="list-style-type: none"> <li>“Beta” release of bidding and reporting interface changes supporting single DUID changes. NOTE: not a fully integrated environment</li> </ul>

\* Monthly updates following the draft to address any emerging changes

**7. June 2025**



# June 2025 FPP Update

Oliver Derum

# June 2025: Frequency Performance Payments

## FREQUENCY PERFORMANCE PAYMENTS (FPP)

<b>Key Date(s)</b>	Go-live June 2025;
<b>Likely impacted stakeholders</b>	Generators, Market Customers
<b>Industry testing anticipated</b>	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"> <li>Final Primary Frequency Response Requirements procedure published 4 May.</li> <li>Final Frequency Contribution Factor Procedure published 1 June, along with the related Tuning Parameters and Input Sources document.</li> </ul>	<ul style="list-style-type: none"> <li>Data Model Technical Specification with updates for FPP reporting – April 2024</li> <li>Data Model Technical Specification with updates for FPP Settlements reporting – Sept 2024</li> </ul>	<ul style="list-style-type: none"> <li>Data integration Jun to Dec 2023</li> <li>Settlements system development Jul to Dec 2024</li> </ul>	<ul style="list-style-type: none"> <li>April-Sept 2024</li> </ul>	<ul style="list-style-type: none"> <li>FPP calculation testing Dec 2024 (non-financial operation)</li> <li>Settlements testing April 2025</li> </ul>	<ul style="list-style-type: none"> <li>Pre-prod releases 1+2 Nov 2024 (start and end)</li> <li>Pre-prod releases 3+4 start and mid March 2025</li> <li>Prod release end May 2025</li> </ul>

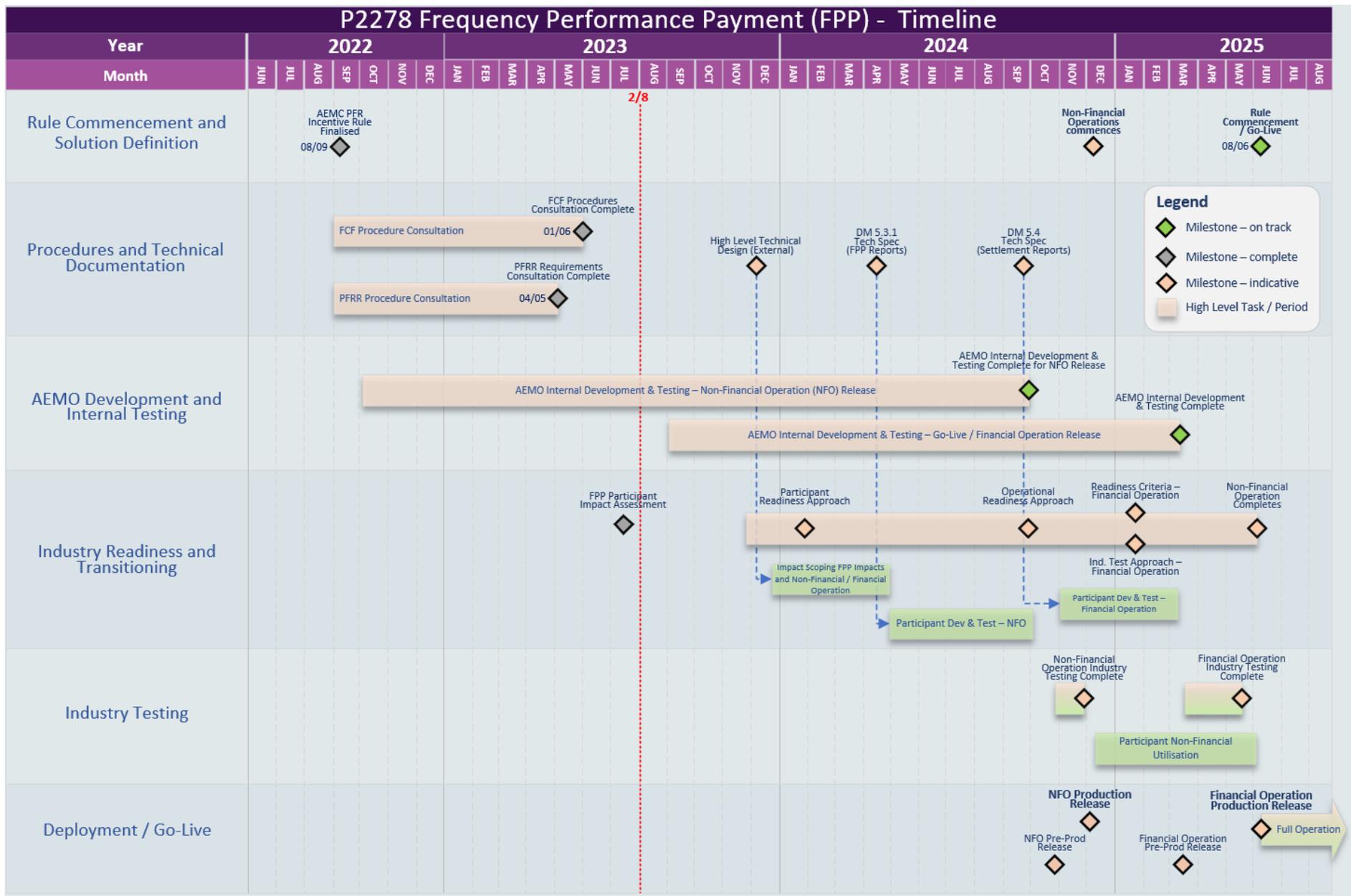
### Relevant links

- [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](#)

# Outcomes of June 2023 Participant development timeline engagement

- AEMO provided its high level view of Participant implementation impacts for FPP
- AEMO thanks all attendees for participant at the workshop and Origin/CS Energy for providing written feedback.
- Participants did not raise concerns about the proposed participant development and testing timings, which are, therefore, unchanged (see next slide).
- AEMO will:
  - Explore with participants what pre-dispatch estimation of FPP outcomes industry might like to see and what AEMO might be able to provide (first step is a discussion at the next EWCF)
  - Work with participants on the development of readiness criteria, including considering specific suggestions received to this consultation
  - Establish FPP External milestones consistent with those development and test timings
  - Work with participants on how to best utilise the six-month period of non-financial operations, noting that AEMO expects all our FPP calculation and reporting systems to be in production, with no or little further change required.

# FPP development and testing timeline



# 8. Noting



# October 2023 MT PASA

For Noting

# October 2023: Increased MT PASA Information

## Increased MT PASA Information

<b>Key Date(s)</b>	Go-live October 2023
<b>Likely impacted stakeholders</b>	Scheduled Generators
<b>Industry testing anticipated</b>	Industry Testing
<b>Overall status</b>	Overall <b>On Track</b> , AEMO Internal testing 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"> <li>RSIG and Energy Adequacy Assessment guidelines consultation Final Published 28/4</li> </ul>	<ul style="list-style-type: none"> <li>Data model changes for MT PASA have been included in release 5.2 of data model. Data Model 5.2 now available in production</li> </ul>	<ul style="list-style-type: none"> <li>AEMO development complete</li> <li>AEMO Internal Testing in progress. UAT Scheduled to complete 28 July</li> </ul>	<ul style="list-style-type: none"> <li>Capability for participants to provide updated information will be deployed 1 week prior to rule commencement to support participant compliance at rule commencement</li> <li>Initiative Go-Live Criteria reviewed with Implementation forum in July</li> </ul>	<ul style="list-style-type: none"> <li>ITWG / Implementation Forum provided overview of Industry Testing approach and timeframe for MT PASA capability to be supported for Industry Testing</li> </ul>	<ul style="list-style-type: none"> <li>Planned deployment 4/10 to allow updates to MT PASA information ahead of rule commencement. Reporting capability to be deployed 9/10</li> <li>Industry Go Live Plan draft planned for end August</li> </ul>

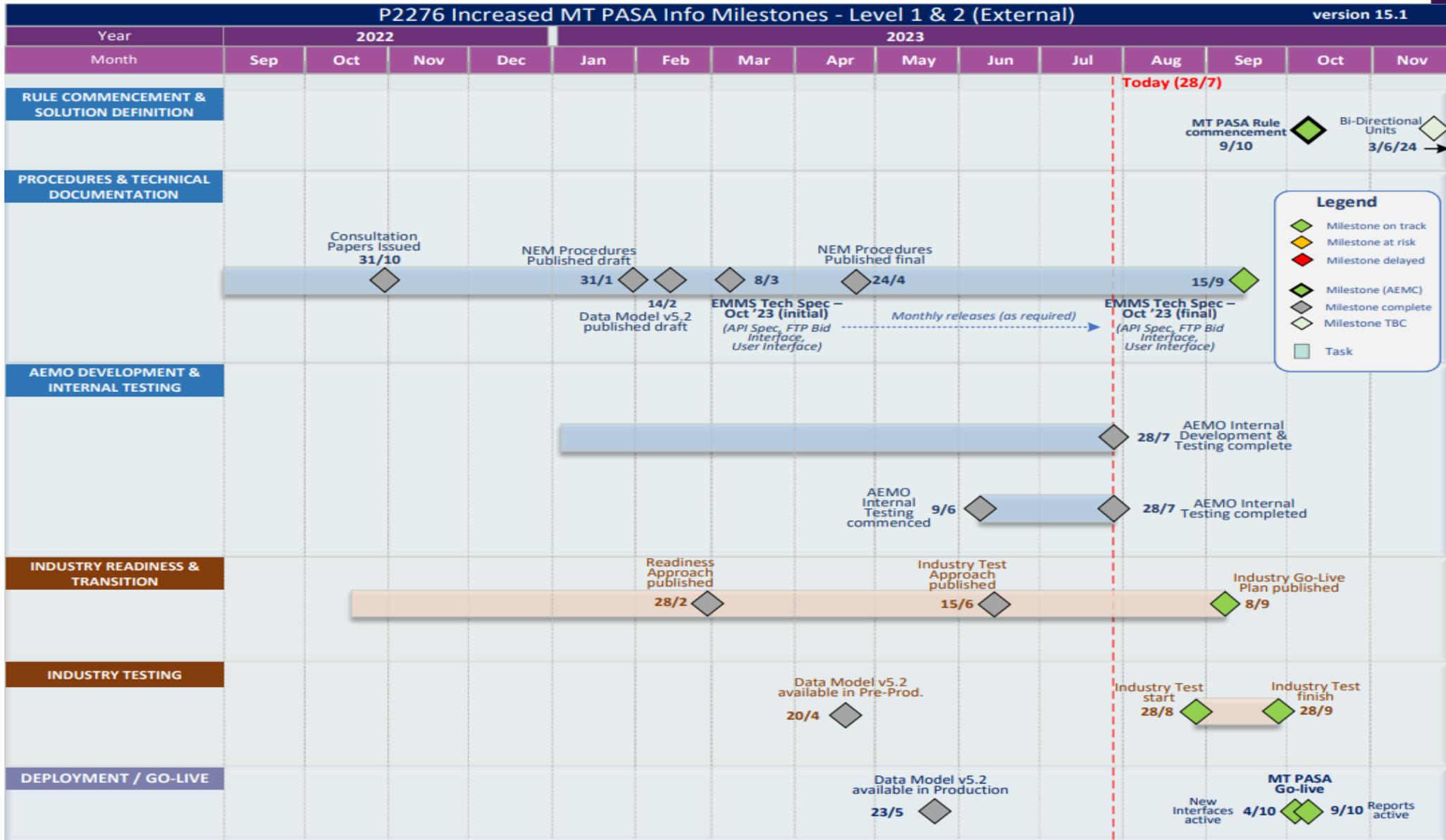
### Relevant links

[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](#)

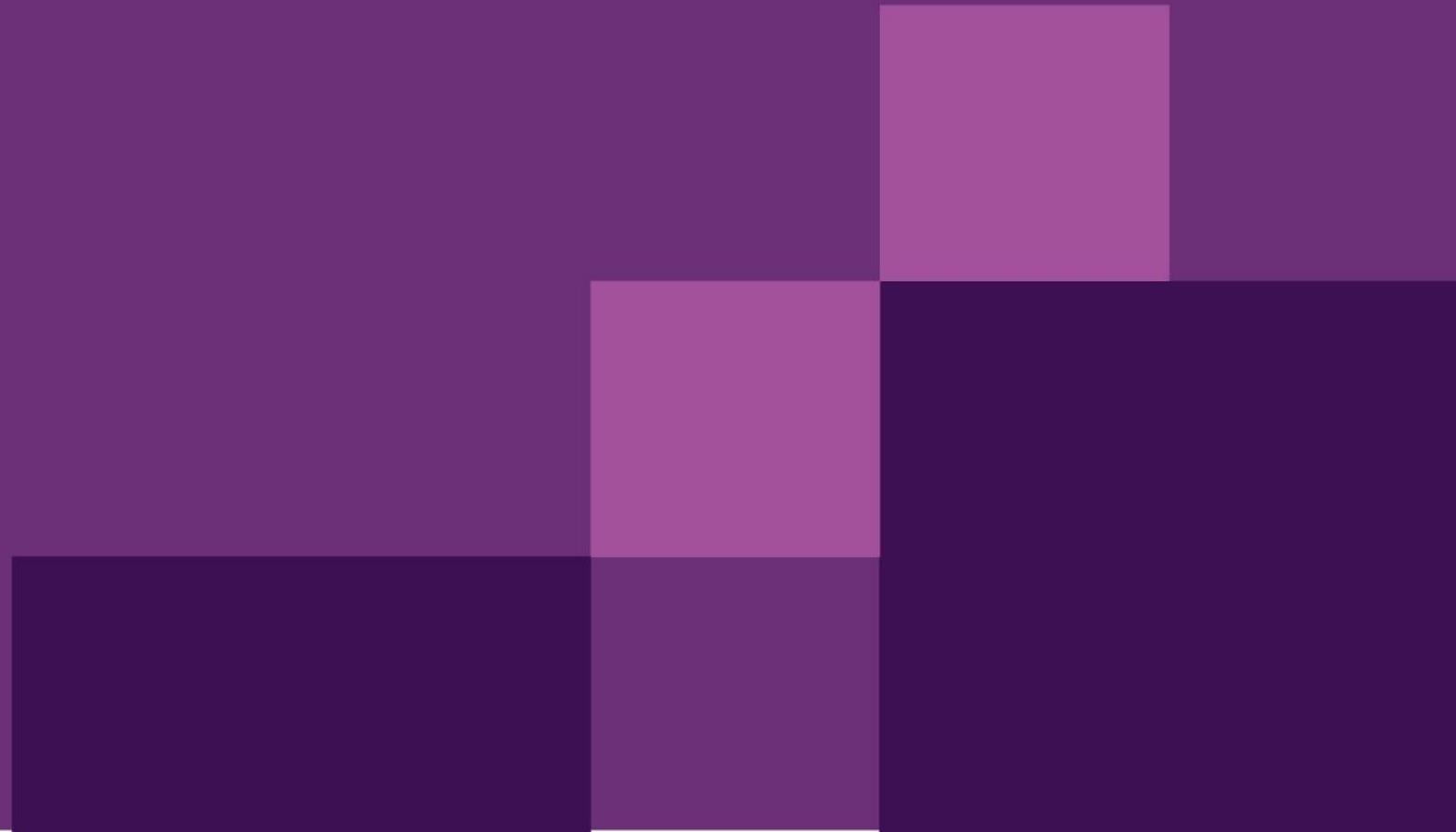
# MT PASA Milestones and progress





# October 2023 5MLP

For Noting



# October 2023: 5 Minute load profile [5MLP]

## 5MLP

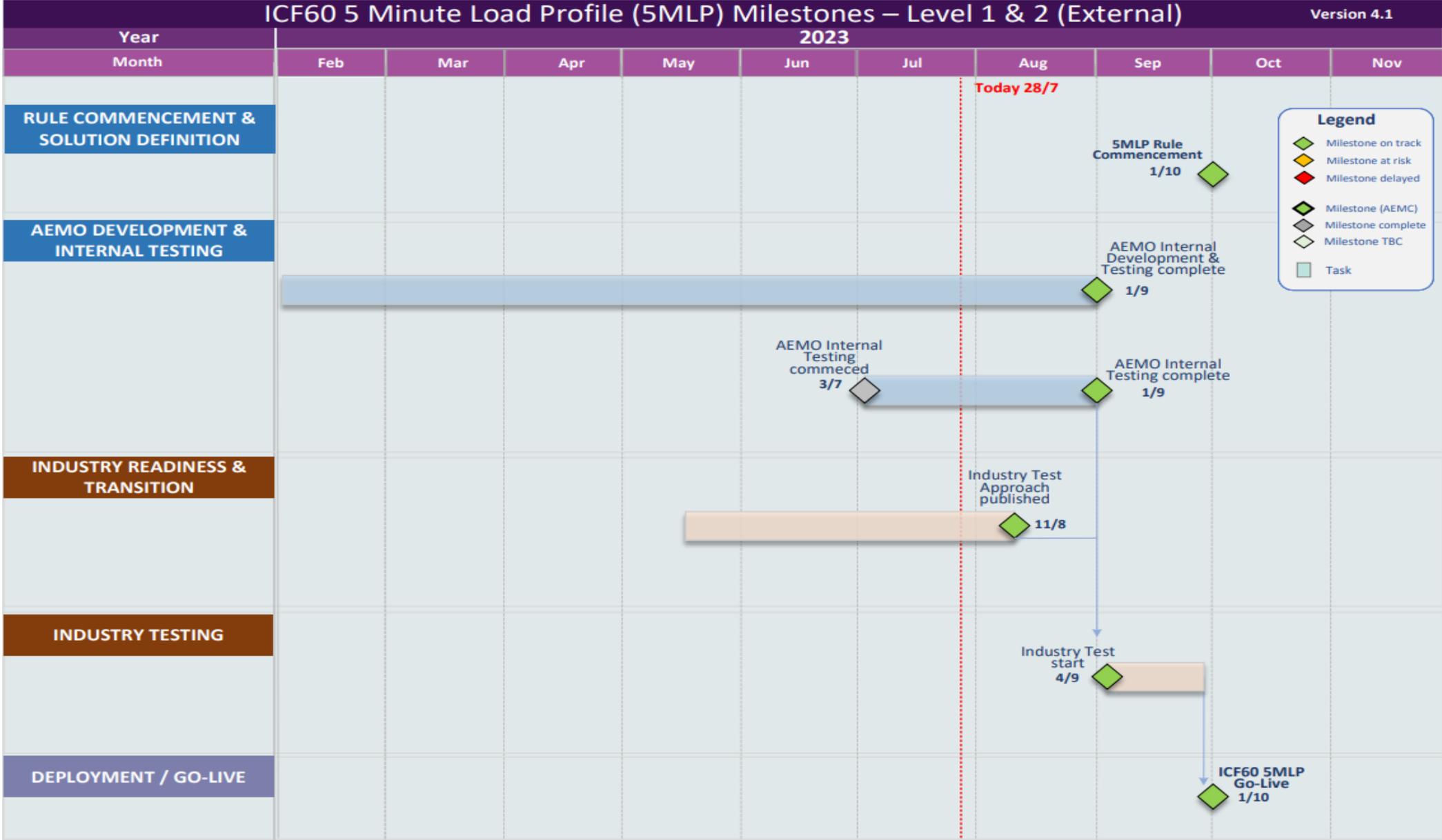
<b>Key Date(s)</b>	Go-live October 2023
<b>Likely impacted stakeholders</b>	FRMPs, Market Customers
<b>Industry testing anticipated</b>	Industry Testing in same timeframe as FFR with Co-ordinated Settlement Runs
<b>Overall status</b>	Overall <b>On Track</b> , AEMO Testing in Progress

Procedures	Technical documentation	AEMO Development and Internal Testing	Industry readiness and Transition	Industry testing	Deployment and go-Live
<ul style="list-style-type: none"> <li>Consultation completed as component of ICF060</li> </ul>	<ul style="list-style-type: none"> <li>No updates to technical documentation required for implementation. Current interfaces and reports remain unchanged.</li> </ul>	<ul style="list-style-type: none"> <li>AEMO Internal testing is progressing for the eMDM changes</li> </ul>	<ul style="list-style-type: none"> <li>No transition requirements identified for initiative implementation</li> </ul>	<ul style="list-style-type: none"> <li>Industry Testing approach provided to ITWG with multiple profile runs supported by RM reports as basis for Industry validation</li> </ul>	<ul style="list-style-type: none"> <li>1 October 2023 is procedure effective date – On Track</li> </ul>

### Relevant links

[AEMO | Load Profiling Methodologies Consultation](#)

# 5 Minute Load Profile Timeline



# November 2023 CDR, Metering Exemptions



For Noting

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

## CDR, Metering Exemptions

<b>Key Date(s)</b>	Go-live November 2023 (TBC for Metering Exemptions)
<b>Likely impacted stakeholders</b>	FRMP, MC, MP, DNSP, MDP
<b>Industry testing anticipated</b>	Industry Testing
<b>Overall status</b>	Overall <b>Amber</b> , AEMO development for CDR Complete, Metering Exemptions Amber.

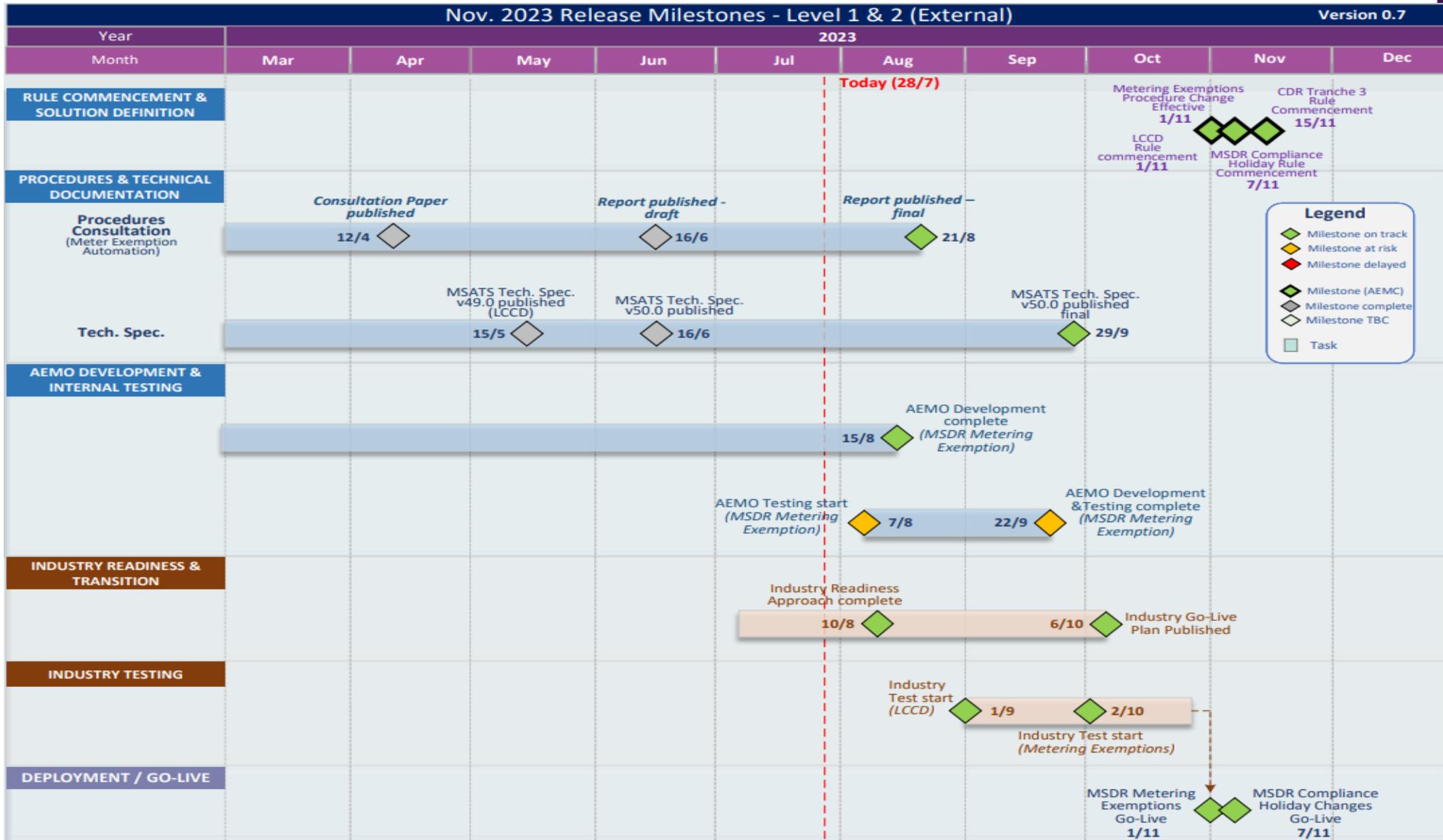
Procedures	Technical documentation	AEMO Development and Internal Testing	Industry readiness and Transition	Industry testing	Deployment and go-Live
<ul style="list-style-type: none"> <li>Minor amendment consultation completed to shift CDR MSATS procedure effective date to 1 November</li> <li>Metering Exemptions consultation in progress               <ul style="list-style-type: none"> <li>Draft report published 16 June.</li> <li>Submissions closed 17 July.</li> <li>Final report due 21 August.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>MSATS November 2023 technical Specification released 26/7</li> </ul>	<ul style="list-style-type: none"> <li>AEMO development for CDR Complete.</li> <li>Metering Exemptions testing is behind schedule, with recovery plan in place</li> <li>Development in progress for MSDR fields with compliance holiday expiring 7/11.</li> </ul>	<ul style="list-style-type: none"> <li>Transition of current exemptions included in development scope</li> <li>AEMO evaluating early release of Metering exemptions APIs to Pre-prod</li> </ul>	<ul style="list-style-type: none"> <li>LCCD changes available for Industry Test from 1 September</li> <li>Pre-prod support for CDR Tranche 3 Retailers</li> <li>Metering Exemptions Industry Test Approach presented to ITWG</li> </ul>	<ul style="list-style-type: none"> <li>Metering Exemptions Procedure effective date 1 November.</li> <li>CDR MSATS LCCD population aligned to CDR Tranche 3 rule commencement.</li> <li>MSDR Compliance holiday expires 7th November.</li> </ul>

### Relevant links

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

[AEMO | Metering Installation Exemption Automation Consultation](#)

# November 2023 Milestones Timeline



# 9. Foundational & Strategic Initiatives

# Reset in the approach:

- Industry feedback from consultation session of 26 July has been taken on board resulting in:
  - A revised Transition Strategy and Roadmap workshop schedule, additional time for consideration of IDX
  - Assessment of Business Case options including phased investment and revised workshop schedule
- Transition Strategy workshops split as follows:
  - 2 August: Workshop 4B - Close out of IDAM actions, conduct Portal Consolidation Transition Strategy assessment (previously planned for 4A), optional technical walkthrough of Gateway technology and the AEMO Supplied Gateway
  - 17 August: Workshop 4C – IDX focus with update on investment phasing, transition options and review and re-assessment of sequencing options and sunset options. Assessment of integrated roadmap
- Business Case options (to be confirmed 17 August) under assessment include:
  - Extending the timeline for pack review prior to first workshop
  - An initial workshop focussed on information sharing, questions and clarifications
  - A final workshop focussed on assessment and finalisation

# Reset to consultation approach for Transition Strategy

	Revised approach	Ask of stakeholders
19 July	Session 4A workshop material shared with Focus Group ✓	Digest and share internally
26 July <i>Workshop 4A</i>	<ul style="list-style-type: none"> <li>• Present a structured approach to determining transition strategy and roadmap</li> <li>• Seek initial input and guidance on transition strategy principles, tranches, sequencing and benefits ✓</li> </ul>	<ul style="list-style-type: none"> <li>• Digest proposed approach and take back to your organisation</li> <li>• Provide initial views on transition options</li> </ul>
1 August	Updated material shared (IDAM, IDX) ✓	N/A
2 August <i>Workshop 4B</i>	<ul style="list-style-type: none"> <li>• IDAM: Close out actions and validation of views identified in session 4A (vote)</li> <li>• Portal Consolidation: Provide overview and seek initial input and guidance on transition aspects (vote)</li> <li>• IDX: ✓ <ul style="list-style-type: none"> <li>• Investment phasing overview (no voting involved)</li> <li>• Technical deep dive on the AEMO supplied gateway technology (no voting involved)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• IDAM: <ul style="list-style-type: none"> <li>• Consider any material gaps or concerns or further impacts to the transition</li> <li>• Review the outcome of actions on IDAM (raised in session 4A) and validate the roadmap via voting as performed in session 4A</li> </ul> </li> <li>• Portal Consolidation: Come prepared for the walkthrough and voting on Portal sequencing as originally put forward for session 4A</li> <li>• IDX: <ul style="list-style-type: none"> <li>• Digest update on investment phasing and take back to your organisation for consideration</li> <li>• Optionally attend the technical deep dive on the AEMO supplied gateway</li> </ul> </li> </ul>
10 August	Updated material to be shared (IDX)	Digest and share internally. Continue considering session 4A pack
17 August <i>Workshop 4C</i>	<ul style="list-style-type: none"> <li>• IDX: <ul style="list-style-type: none"> <li>• Investment phasing overview and considerations</li> <li>• Walkthrough of transition options and implications</li> <li>• Sequencing and bundling review (vote)</li> <li>• Sunset period options (vote)</li> </ul> </li> <li>• Integrated roadmap (IDAM, PC, IDX): Review and assessment</li> </ul>	<ul style="list-style-type: none"> <li>• IDX: <ul style="list-style-type: none"> <li>• Review and optionally assess the further exploration of transition options</li> <li>• Provide input on sequencing, bundling and sunset timelines, underpinned by a phased investment approach limiting the scope of endorsement via a business case.</li> </ul> </li> <li>• Integrated roadmap: <ul style="list-style-type: none"> <li>• Identify any material considerations in the overlaid timeline noting the phased investment approach</li> <li>• Review and assessment against objectives, risks and principles</li> </ul> </li> </ul>

# Industry Consultation timeline



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"> <li>Introduce initiatives</li> <li>Outline workshop plan</li> </ul>	<ul style="list-style-type: none"> <li>Pain points and benefits</li> <li>Survey</li> </ul>	<ul style="list-style-type: none"> <li>Concept walkthrough</li> <li>Survey</li> </ul>	<ul style="list-style-type: none"> <li>Transition Strategy</li> <li>Impacts &amp; Benefits</li> <li>Survey</li> </ul>	<ul style="list-style-type: none"> <li>Summary</li> <li>Options</li> </ul>
Audience		 	 		

**Legend:**  Business Focus Group  Technical Focus Group  All interested stakeholders who nominated to Focus Groups

\* Schedule as per 28 July.

**\*\* Business case – indicative approach with the Focus Group**

- Pre-engagement on cost estimates mid August with interested participants
- 4 weeks process with 2 workshops in Sep
- Week 1 AEMO distributes materials
- Week 3 Session 5A: Walk through, Q&A
- Week 5 Session 5B: Assessment and voting (not a decision)
- Offline feedback through email/1to1s throughout this period

To be confirmed and communicated to the focus group by 17 August.

# 10. NEM Reform Forums Update

# NEM Reform Forums update

Channel	Current focus	Next meeting
<b>Information Exchange Committee (IEC) and Business-to-Business Working Group (B2BWG)</b>	<ul style="list-style-type: none"> <li>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.</li> </ul>	<b>10 August 2023</b>
<b>NEM Reform Electricity Wholesale Consultative Forum (EWCF)</b>	<ul style="list-style-type: none"> <li>The current focus is on regular updates for inflight reform IESS, FFR, FPP, MT PASA, and the strategic and foundational initiatives (IDAM IDX and PC). The 18 July meeting provided an update on consultations underway, the procedures consultation roadmap and the Dispatch and pricing process improvement</li> </ul>	<b>15 August 2023</b>
<b>Electricity Retail Consultative Forum (ERCF)</b>	<ul style="list-style-type: none"> <li>The current NEM Reform focus is on considering retail and metering procedural impacts associated to the introduction of the IESS Rule.</li> </ul>	<b>28 August 2023</b>
<b>NEM Reform Implementation Forum</b>	<ul style="list-style-type: none"> <li>Focus on 2023 Releases – progress and implementation updates for all inflight initiatives for 2023 and 2024.</li> <li>ADC Industry Testing</li> <li>Updates and Assessment of Go-Live Criteria for FFR and Mt PASA</li> <li>IESS June Market Trial scope and participant transition support</li> </ul>	<b>29 August 2023</b>
<b>NEM Reform Industry Testing Working Group (ITWG)</b>	<ul style="list-style-type: none"> <li>Outlined the approach for August release and October release testing (timelines and scope)</li> <li>LCCD testing Approach</li> <li>FFR, MT PASA and 5MLP integrated approach during August – October period</li> </ul>	<b>31 August 2023</b>
<b>NEM Reform Executive Forum</b>	<p>Agenda to include:</p> <ul style="list-style-type: none"> <li>Forum purpose and objectives</li> <li>Program challenge and response,</li> <li>AEMOs Foundational &amp; Strategic Initiatives update</li> <li>Overall program delivery status and costs.</li> </ul>	<b>23 August 2023</b>

For more information and meeting papers for each of the forums, please refer to the [NEM Reform program](#) website.

# Executive Forum

**AEMO is establishing an open Executive Forum to build on its industry wide engagement structure.**



The Executive Forum will facilitate engagement between executive level organisational representatives from across industry

**The Executive Forum is intended to provide a forum for Industry Executives to:**

- Hear overall plans, status, and risks in relation to industry readiness first-hand
- Discuss issues and success factors relating to timely industry investment/mobilisation for delivery
- Consider and raise risks relating to delivery effectiveness and efficiency
- Raise and consider risks external to NEM Reform that may require action/mitigation
- Identify ways for industry to collaborate more effectively and address the challenges identified

**AEMO welcomes feedback from PCF members on the terms of reference and proposed agenda.**



## Proposed agenda

- The focus of this forum will include:
- Forum purpose and objectives
  - Mobilising the NEM Reform Program for Delivery
  - AEMOs Foundational & Strategic Initiatives update
  - Overall program delivery status and AEMO costs.



AEMO has scheduled an executive forum for the **23 August 2023**.

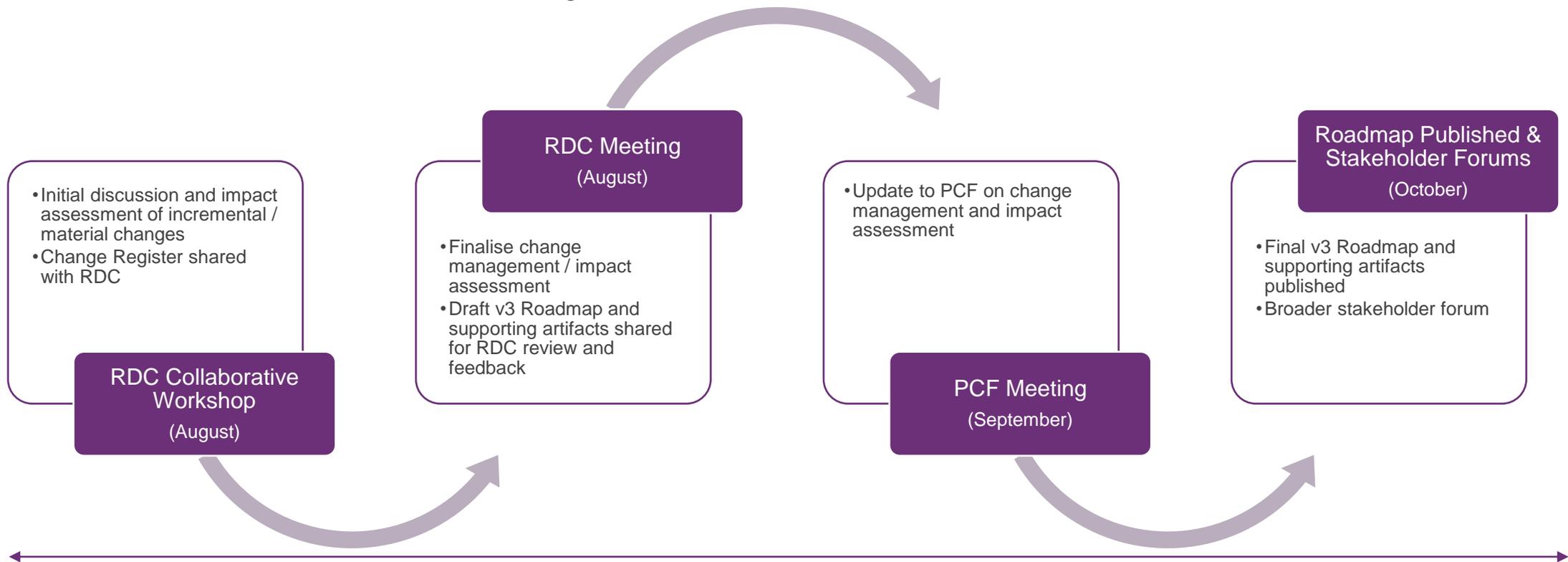


Executives interested in attending the NEM Reform program Executive forum can submit their nominations to [NEMReform@aemo.com.au](mailto:NEMReform@aemo.com.au)

# 11. NEM Reform Implementation Roadmap Update

# Keeping the NEM Reform Implementation Roadmap up to date

AEMO has commenced the process of updating the Roadmap in conjunction with the Reform Delivery Committee. This process aims to capture both incremental or material changes across initiatives in accordance with the Change Management Process established for the NEM Reform Program.



# The following material changes have been identified as of July 2023

Changes in Scope and Timing (see section 5)	Changes in Timing only (see section 5)	Changes in Scope and / or Timing (and action proposed)
<ul style="list-style-type: none"> <li>Capacity Incentive Scheme</li> <li>Enhanced Information</li> <li>Operational Security Mechanism</li> <li>Data Services</li> </ul>	<ul style="list-style-type: none"> <li>Congestion Relief Market &amp; Priority Access Model</li> <li>Scheduled Lite</li> <li>SCADA Lite</li> <li>Dynamic Operating Envelopes</li> <li>DER Data Hub &amp; Registry Services</li> <li>DER Operational Tools</li> <li>Distribution Local Network Services</li> <li>Bill Transparency</li> <li>Network Visibility</li> <li>Electric Vehicles Charging Standing Data Register</li> </ul>	<ul style="list-style-type: none"> <li>Extension of the application of IRM to RRO (New)</li> <li>Amendment of the MPC, CPT and APC (New)</li> <li>Extending the Regulatory Framework to Hydrogen and Renewable Gases (timing)</li> <li>DWGM Heating Values (committed status and timing)</li> <li>Compensation and dispute resolution frameworks (New)</li> </ul>
<p>ESB Post-2025 Related Reforms</p>		<p>Non-NEM2025 and Gas Reforms</p>

# The following incremental changes have been identified as of July 2023

## NEM2025 Related Reforms (and action proposed)

- Business Rules Engine [Dependent Project]  
  
(Update initiative to reflect implementation via AEMO's Operational Technology Roadmap program in order to align with other dependent projects Operational Decision-Making Tools, Operational Data Store and Forecasting Platform Uplift)

## Non-NEM2025 and Gas Reforms (and action proposed)

- Efficient Provision of Inertia  
  
(Update rules development phase to reflect current AEMC timeline – Draft determination: February 2024)

# 12. Industry Risk Register

# Industry Risk Register

- AEMO has taken the feed back received from participants at the last PCF and is working to build out its risk register.
- We have adjusted the risks presented at our 12 July PCF and welcome feedback on these adjustments.
- We expect to return to participants with a finalised and more comprehensive set of risks at the next PCF on 13 September.

# Industry Risk Register

AEMO has identified a number of initial program risks to outline our proposed approach. Risk rating is pre-mitigation. Changes are outlined in red.

## 1. Volume of regulatory change

Risk ID	title	Description	Rating		Mitigation
1.1	<b>Delivery congestion – Near term</b>	There is a significant volume of reform underway. In the near term the WEM market Go-live is coinciding with October initiative's Go-live potentially creating conflicts for AEMO resourcing availability.	High	Likelihood	<ul style="list-style-type: none"> <li>• Providing industry participants with a transparent delivery schedule.</li> <li>• AEMO to plan internal work programs appropriately and prioritise, sequence and manage resourcing adequately.</li> <li>• <b>AEMO to report readiness status of the WEM Go Live to PCF.</b></li> </ul>
				Consequence	
1.2	<b>Delivery congestion – 2025</b>	In the longer term 2025 is facing a potentially pressured delivery schedule with 2 significant initiatives (FPP, ST-PASA) committed and 4 other significant initiatives (FTA, Sch. Lite, OSM, CRM) under consideration.	High	Likelihood	<ul style="list-style-type: none"> <li>• Investigate different ways of managing scope at the point of regulatory consultation (with AEMC).</li> <li>• <b>RDC to identify opportunities to bundle / sequence and prioritise implementation.</b></li> <li>• <b>RDC to progress</b> the informed Go-live process.</li> </ul>
				Consequence	
1.3	<b>Sub-optimal delivery outcomes</b>	<b>Large amount of regulatory change underway will stretch industry resources allocated to the delivery of market regulatory change initiatives creating conflicts for industry participants' resource allocation. Risk of sub optimal delivery outcomes.</b>	High	Likelihood	<ul style="list-style-type: none"> <li>• <b>Maintain regulatory implementation roadmap to assist with planning</b></li> <li>• <b>Engage broadly internally and externally to understand other industry priorities.</b></li> <li>• <b>Planning with consideration of these priorities</b></li> </ul>
				Consequence	

# Industry Risk Register

AEMO has identified a number of initial program risks to outline our proposed approach. Risk rating is pre-mitigation.

## 2. AEMO delivery program

Risk ID	title	Description	Rating		Mitigation
2.1	AEMO Resourcing	<p>AEMO is currently experiencing a high demand on a limited pool of specialised resources / Subject matter experts (SMEs). This is an issue we are dealing with now.</p> <p>An inability to address this issue will lead to a medium to long term risk impacting delivery / testing timeframes and go-live dates.</p>	Risk Rating High	Likelihood	<ul style="list-style-type: none"> <li>AEMO work underway to address immediate gaps for in-flight initiatives, implement succession planning and business / digital continuity processes.</li> <li>This includes contingency planning on key resources and strategic partnerships with suppliers, processes for SME succession planning</li> </ul>
				Consequence	

# Industry Risk Register

AEMO has identified a number of initial program risks to outline our proposed approach. Risk rating is pre-mitigation.

## 3. Participant development and readiness

Risk ID	title	Description	Rating		Mitigation
3.1	<b>Participant development timeframes</b>	Delays or late delivery of AEMO design, development or testing activities (requirements definition, build and system test, environments) may cause compression of timelines for participant development, testing impacting participant readiness and overall reform success.	Risk Rating High	Likelihood	<ul style="list-style-type: none"> <li>• Providing industry participants with a transparent delivery schedule.</li> <li>• AEMO to plan internal work programs appropriately and prioritise, sequence and manage resourcing adequately.</li> <li>• <b>AEMO to look for opportunities to provide participants with more time to adapt to regulatory changes. For example undertake key project activities (e.g. market trials) earlier.</b></li> <li>• <b>AEMO to consider opportunities to release material to participants earlier (e.g. tech specs).</b></li> </ul>
				Consequence	
3.2	<b>Industry Resourcing</b>	The delivery program is large and complex and its delivery will stretch industry's limited pool of resources with potential to impact participant development, testing and readiness.	Risk Rating High	Likelihood	<ul style="list-style-type: none"> <li>• <b>Individual participants to review their own deliverability obligations and resourcing requirements, and establish resourcing plans accordingly seeking to mitigate the extent of resourcing risk for their own circumstances</b></li> <li>• <b>Regulatory Implementation Roadmap to be maintained to provide a current view of initiatives and timing. Participants to leverage this where relevant.</b></li> <li>• <b>Regulatory Implementation Roadmap to be utilised to help inform efficient delivery (eg bundling and sequencing) and provide transparency for implementation congestion, providing a basis for this to be proactively managed</b></li> </ul>
				Consequence	

# 13. Upcoming Engagements

# Upcoming Engagements

August							September						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5						1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23
27	28	29	30	31			24	25	26	27	28	29	30

October							November						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7				1	2	3	4
8	9	10	11	12	13	14	5	6	7	8	9	10	11
15	16	17	18	19	20	21	12	13	14	15	16	17	18
22	23	24	25	26	27	28	19	20	21	22	23	24	25
29	30	31					26	27	28	29	30		

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	

**Market Systems User Group (MSUG)**

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

To learn more about these events, please visit AEMO's [Industry meeting calendar](#) or contact the program at [NEMReform@aemo.com.au](mailto:NEMReform@aemo.com.au).

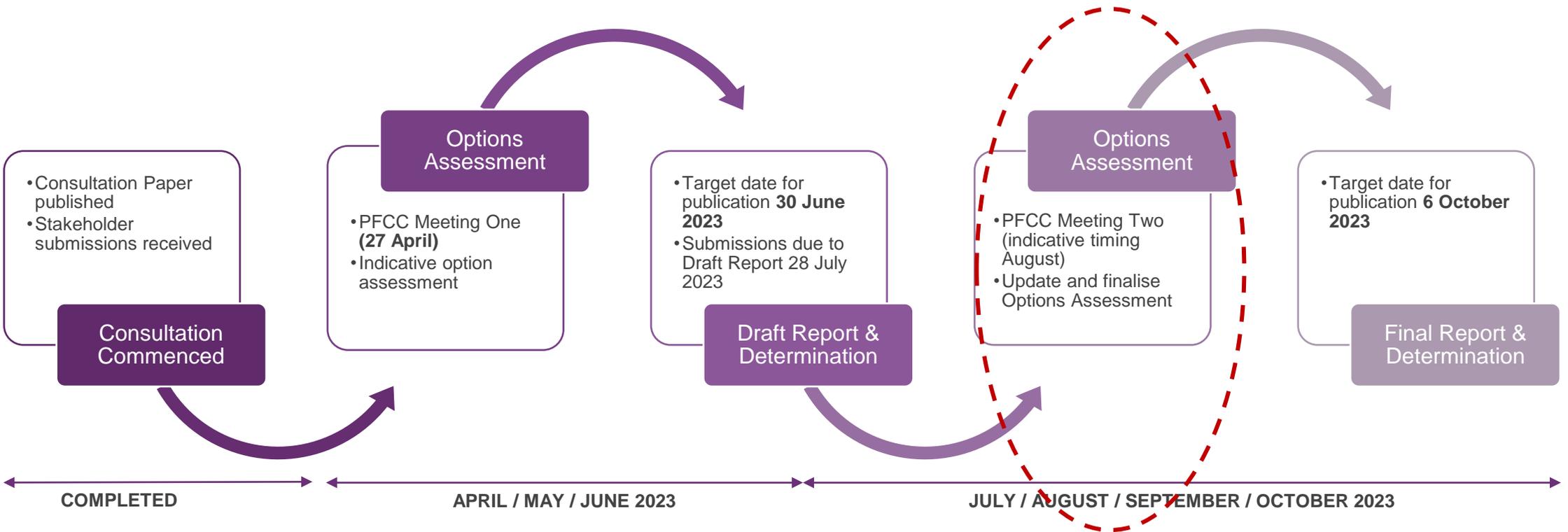


# Fee Consultation Update



# Participant Fee Structure for the NEM2025 Reform Program Declared NEM Project

- AEMO is conducting a consultation on the determination of the Participant Fee structure for the NEM2025 Reform Program declared NEM project. The NEM2025 Reform Program was determined a declared NEM2025 Reform Project on 29 September 2022 following a consultation process
- **On 30 June 2023, AEMO published its Draft Report and Determination for the stakeholder feedback.**



# 14. General Questions and Other Business



[NEMReform@aemo.com.au](mailto: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 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 Reform 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

# Appendix C: Risk matrix

# Industry Risk Register

## Risk Matrix

Likelihood	Risk Rating			
	Likely	Medium	High	High
	Possible	Low	Medium	High
	Unlikely	Low	Low	Medium
	Minor	Moderate	Major	
Consequence				



For more information visit

[aemo.com.au](http://aemo.com.au)