

# NEM2025 Implementation Forum

Meeting #9  
28 March 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(s)
1	1:00 – 1:05pm (AEDT)	<b>Welcome</b>	Greg Minney
2	1:05 – 1:10pm	<b>Actions &amp; Feedback from Previous Meeting</b>	Greg Minney
3	1:10 – 1:20pm	<b>2023 Release Summary</b>	Greg Minney
4	1:20 – 1:40pm	<b>March 2023 Release</b> • Go Live Confirmation	Emily Brodie
5	1:40 – 2:20pm	<b>May 2023 Release</b> • Progress and Deliverable update • Last Customer Change Date Deployment • Industry Testing • Go-Live Criteria and approach – checkpoint • SAPS – MSRP registration Briefing and updates	Jim Agelopoulos Justin Stute Greg Minney Greg Minney Greg Minney
6	2:20 – 2:40pm	<b>August - October 2023 Release</b> • IESS ADC – Progress Summary and Updated Milestones • FFR – Progress Update and Market Start summary • MT PASA – Progress Summary • Metering Exemption Status • 5MLP Confirmation • Industry Testing Approach	Emily Brodie Greg Minney / Carla Ziser Greg Minney Gareth Morrah Jim Agelopoulos Greg Minney
7	2:40 – 2:50pm	<b>June 2024 Release</b> • Progress Update • Feedback and next steps on IESS Readiness Approach	Greg Minney Emily Brodie
8	2:50 – 2:55pm	<b>Upcoming Engagements</b>	Ulrika Lindholm
9	2:55 – 3:00pm	<b>General Questions &amp; Other Business</b> • API update • IDAM/IDX/PC representation	Greg Minney / Simon Tu Ulrika Lindholm

**Appendix A:**  
Supplementary Information  
• Increased MT PASA Information  
• Fast Frequency Response

**Appendix B:**  
Competition law meeting protocol and  
AEMO forum expectations

*"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

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

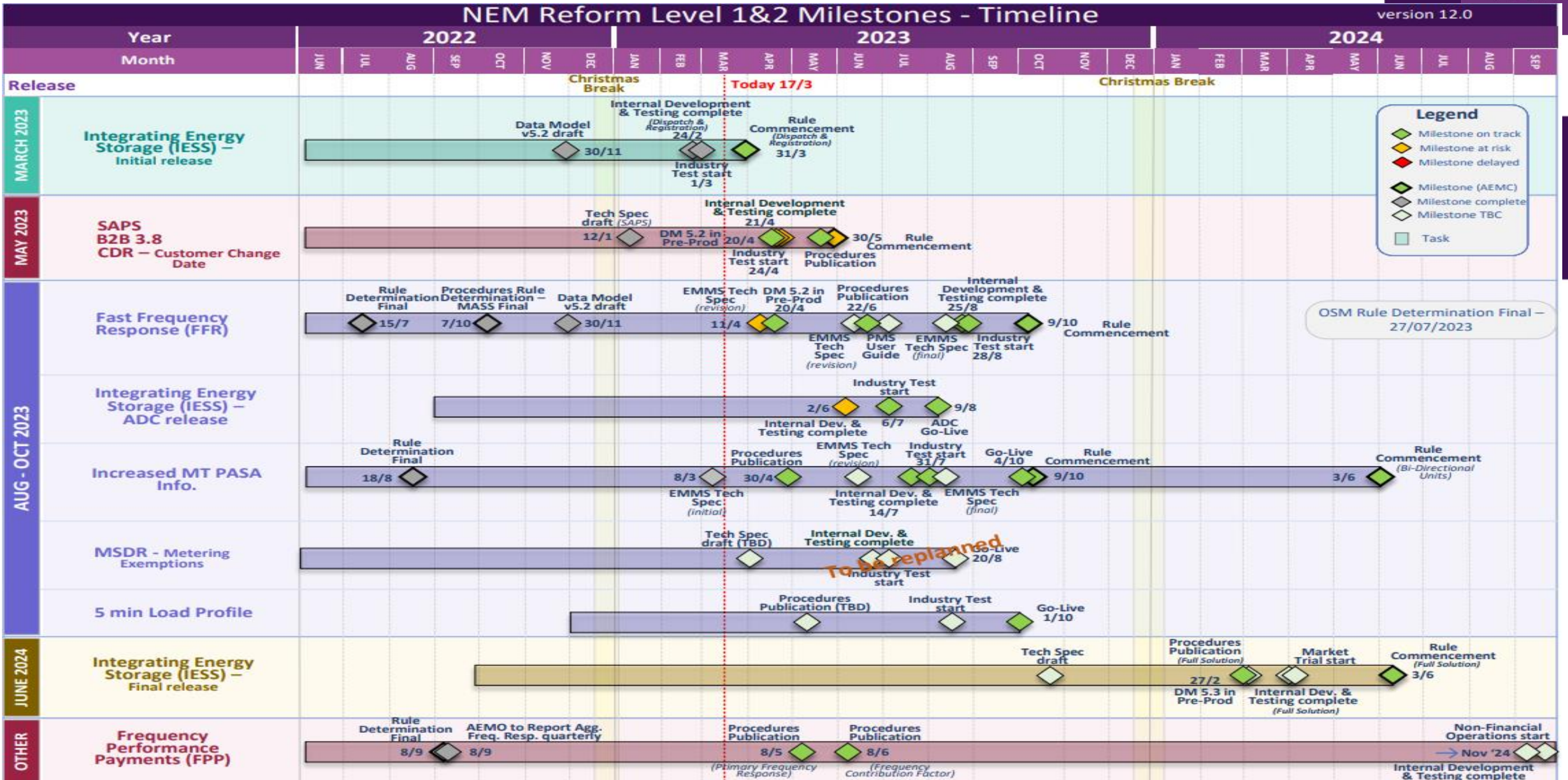
#	Topic	Action	Responsible	Notes
8.3.0	2023 Release Summary	Members to provide feedback and suggestions on the level of detail for the Release Summary Timelines moving forward.	Participants	
8.3.1	2023 Release Summary	AEMO to consider contingency communications for Go Lives for each release.	AEMO	To be included in future release communications
8.5.0	May 2023 Release	AEMO to consider changes/revisions are made available to easily identify from EMMS 5.1 to 5.2.	AEMO	Closed - Changed mark versions released to support dot releases.
8.5.1	May 2023 Release	Provide an update overview of the May Release Go Live plan at the March Implementation forum.	AEMO	Closed – Draft plan to be release 5 <sup>th</sup> April
8.6.0	August – October Release	Participants are encouraged to provide feedback on AEMO’s Readiness Approach for the Aug-Oct 2023 release.	Participants	
7.3.1	API Implementation	Mark Riley (AGL) to email NEM2025 inbox with any concerns or suggestions regarding API implementation. AEMO to discuss further with IT Support and identify if there are any underlying concerns that could impact further developments that AEMO would be looking to put in place.	AGL	Closed – Meeting Held. Verbal update to be provided in other business
6.3.1	CDR API Statistics	AEMO to establish if we can / then provide update on CDR volumes (API requests) back to Implementation forum	AEMO	Ongoing

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

# 3. 2023 Release Summary

# Release Summary milestones

## NEM Reform Level 1&2 Milestones - Timeline



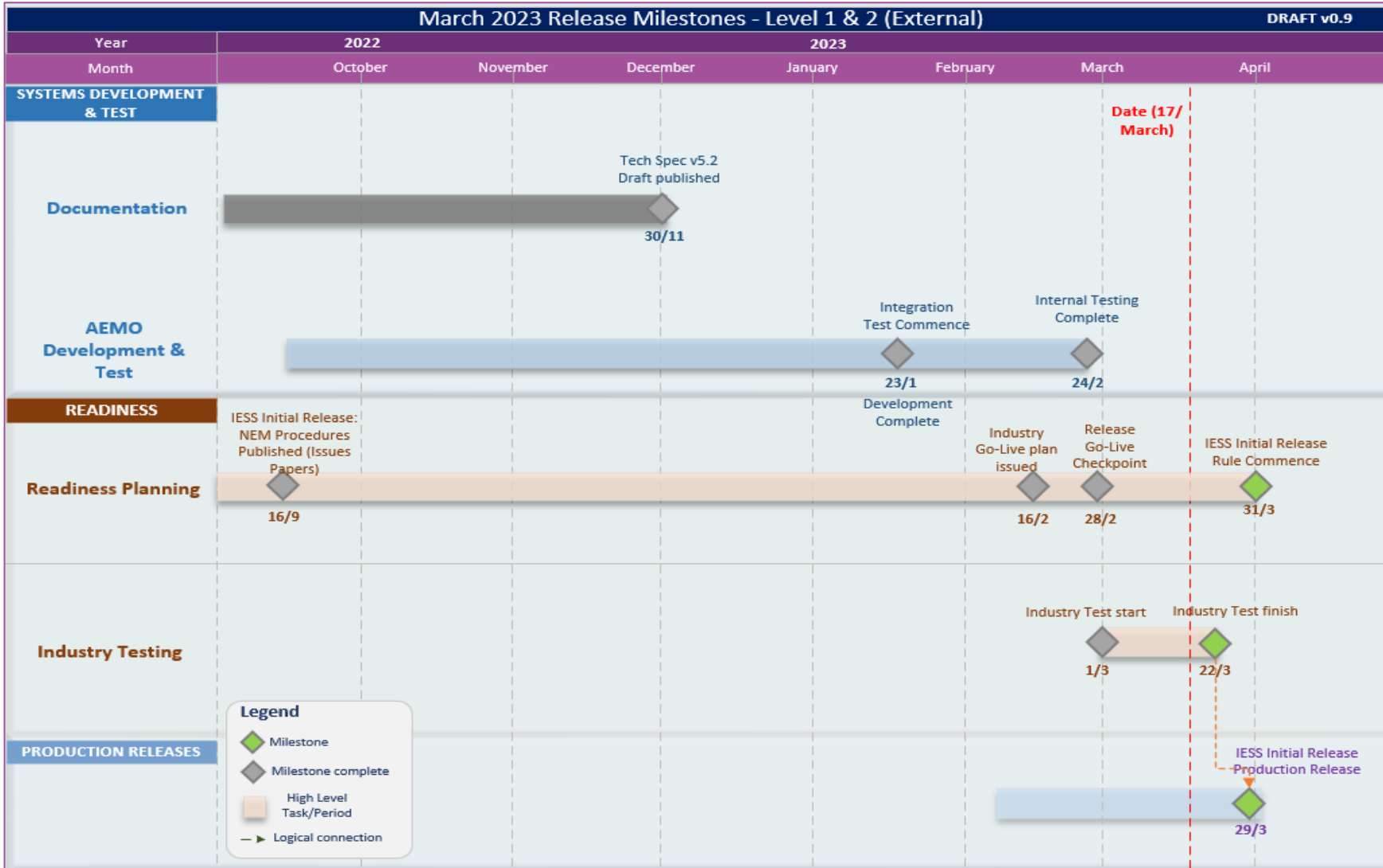


# 4. March 2023 Release

# Milestone Review – March IESS

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

DRAFT v0.9



## March Summary

- **ON TRACK** for production deployment 29 Mar
- Industry [go-live plan](#) issued
- [Go-live checkpoint](#) conducted
- AEMO solution tested and endorsed for production release on 29 Mar
- AEMO business preparations on track:
  - IESS: Registration of MSGA's to provide FCAS from 31 Mar
  - SAPS: Availability of registration guidelines for MSRP from 31 Mar
  - SAPS: Early MSRP registration from 17 Apr
- Optional adoption for MSGAs i.e. participant readiness activity is not a pre-requisite for go-live
- No indication that contingency will be needed.

# REFRESHER: March go-live communications

#	AEMO actions	Industry impacts and actions	Planned Time (Market Time)	Communication Channel
1	AEMO will implement changes to its registration system in the pre-production environment	No action required, there is no Industry testing for the IESS application process.	01 Mar 2023	n/a
2	AEMO will implement changes to its registration system in production	Refer Task #3	29 Mar 2023	n/a
3	AEMO notifies SGA Participants via email when Registrations open	SGAs are advised that registrations have opened.	31 Mar 2023	<ul style="list-style-type: none"> <li>Email to NEM2025 Implementation Forum members and SGAs.</li> <li>A notification will be posted on the <a href="#">IESS project website</a>.</li> </ul>
4	“AEMO Communications” e-newsletter article	All recipients of e-newsletter advised that registrations have opened	06 Apr 2023	Email
5	AEMO to facilitate IESS industry Q&A session if there is sufficient demand from Participants		April 2023 (date TBC)	NEM2025 Implementation Forum

## FURTHER INFORMATION

- [IESS participant toolbox](#)
- [Fact sheet](#)
- [Resources to help SGAs assess, prepare and participate in ancillary services](#)

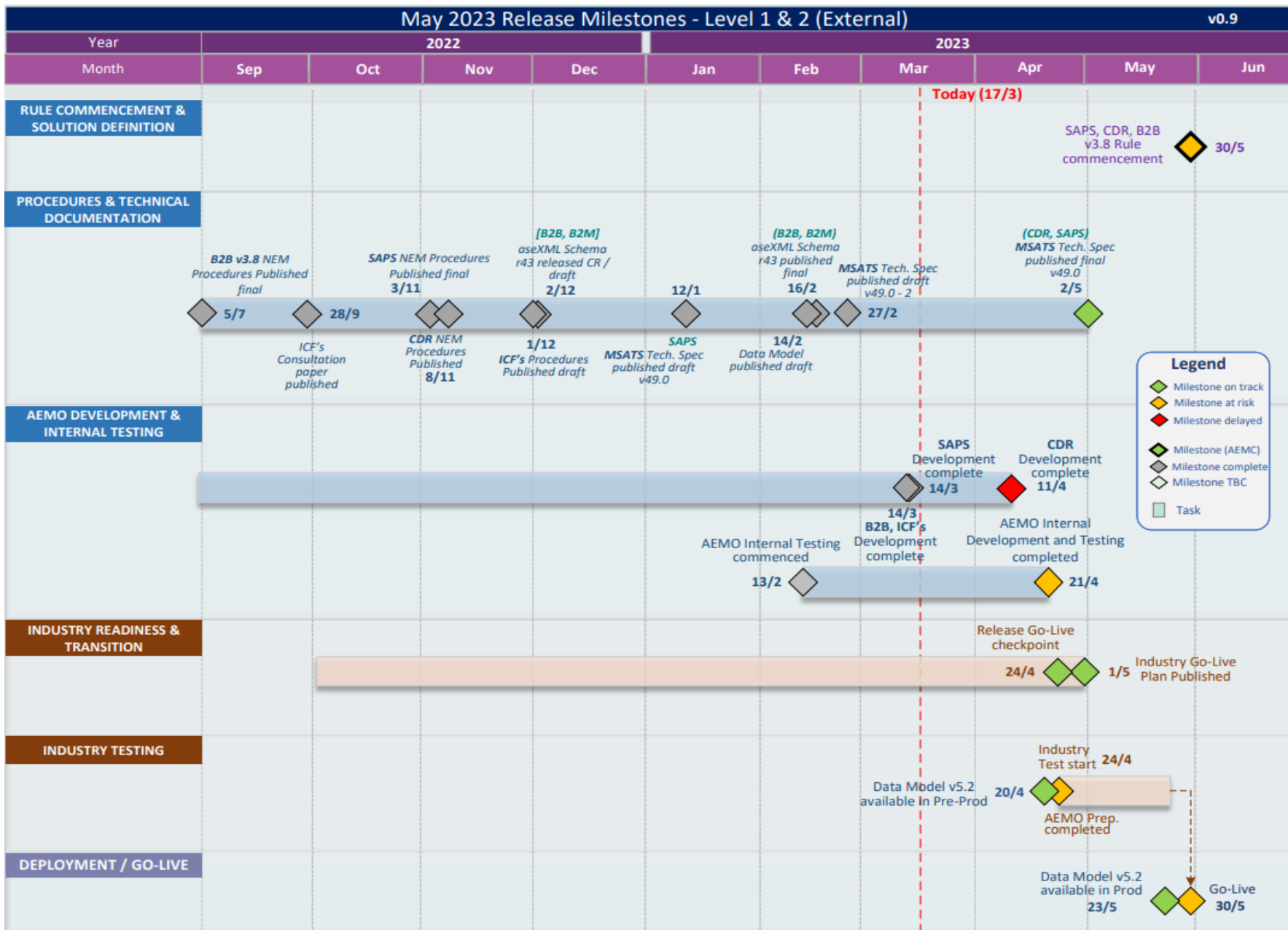
# 5. May 2023 Release

# Progress and Deliverable update

Jim Agelopoulos



# Milestone Review



## Release Commentary

- May Release is rated AMBER due to progress with SAPS Internal Testing, and Performance updates to CDR
- AEMO will overlap some internal test phases in lead up to Industry Test
- Industry Test for May still scheduled to commence as planned. Scope and Approach being addressed with ITWG
- In line with Readiness Approach - checkpoint for go-live readiness in line with Industry Test Commencement
- LCCD procedure effective date proposed to be shifted to 1 November 2023
- Update to the MSATS v49.0 tech spec draft published W/B 27/2/23.
- ITWG meeting 30/3 with focus on the scope of Industry/Invitation testing for May release, Draft may go-live plan to be issued 5<sup>th</sup> April. aseXML schema r43 will support both B2M and B2B changes
- Revision to EMMS Data model v5.2 specification released 21/3 to address noted inconsistencies

# Deliverable Update (Retail)

Deliverable	Content	Status	Initial Release	Final Release
<b>B2B v3.8 &amp; Other ICFs (MSATS Release 49.0)</b>				
MSATS Technical Specification (v49.0)	Describes the projects and enhancements planned by AEMO from a participant perspective and includes the related changes to participants' IT systems	Revision Published	12-Jan-23 27-Feb-23	02-May-23
B2M Mapping to aseXML	New guide detailing the mapping between the MSATS B2M procedures and the aseXML schema. A draft document was distributed <a href="#">B2M Mapping to aseXML</a> in early December for participant review.	Initial published	05-Dec-22	02-May-23
aseXML schema (r43)	The aseXML r43 schema will be the current XML version for B2B and B2M following the May 2023 Release. The changes in r43 include: B2M updates supporting Stand alone Power Systems, Consumer Data Right and Retail ICFs, while the B2B changes include a new transaction type for Shared Fuse One Way Notifications.	Final published	02-Dec-22	16-Feb-23

The Markets Portal Help is accessible from the following places on AEMO's website:

- New: AEMO's public website. [Click Here](#)
- Existing: Requires a MarketNet connection. [Click Here](#)

# Deliverable Update (Wholesale)

Deliverable	Content	Status	Initial Release	Final Release
<b>SAPS, MT PASA, IESS – ADC &amp; Fast Frequency Response</b>				
EMMS Data Model 5.2	Update to various tables to support SAPS, MT PASA, IESS ADC, Settlements, Billing and Fast Frequency Response initiatives for the August to October 2023 Release.	Revision Published	14-Feb-23 21-Mar-23	23-May-23





# Last Customer Change Date Deployment

Justin Stute



# Consumer Data Right – Last Customer Change Date

- AEMO has accepted the proposal from initial retailers in respect of the risk of the edge case where the LCCD field is populated but not maintained during the compliance holiday period
- AEMO will proceed with a consultation for a minor amendment to change the effective date of the commencement of the LCCD in MSATS to 1 November 2023 for all participants
- The indicative timeframe for publication of the consultation is late March



# Industry Testing

Greg Minney



# SAPS Invitation Testing

Only two participants have expressed interest in testing SAPS functionality ahead of the May go live. I will be organising meetings with these participants and share the plan in the upcoming ITWG meetings.

- AGL
- Ausgrid

# Suggested Testing for the May 2023 Release.

Request for interested parties for the invitation testing of SAPS was requested by 15th Feb to allow for planning and preparation

Q&A sessions will be held during the Pre Production testing period to support any participants testing and requiring assistance and track the invitation testing progress

## Invitation Testing

Suggested Tests	Participants
Invitation for interested parties to verify SAPS set up	MSRP/FRMP/LNSP
Verify additional validations to CR's as part of SAPS	LNSP/FRMP
Settlement run for SAPS ( if interest is high enough)	LNSP/FRMP/MSRP

## Industry Testing

Suggested Tests	Participants
C1 updates – additional tables available for participants	ALL
B2B Schema r43	ALL
B2M Schema r43	ALL
'House Number To Suffix' is a part of the Australian structured address standards.	ALL
Updating Network Tariff for a Greenfield NMI	ALL
Allow ENMs visibility to parent NMI standing data	ALL
Extend the current 130 business day limitation on NMID3 requests.	ALL
New field and CR 5056/5057 – Last consumer change date (LCCD)	FRMP
Verify changes to child NMI standing data	ALL
Change to CR3101 to validate greenfield site network tariff code	LNSP
Verify NMI discovery change to type 3 discovery (130 business days)	FRMPS
Verify additional validations to CR's as part of SAPS	LNSP/FRMP
Data Model changes	

# Go-Live Criteria and Approach – Checkpoint

Greg Minney



# Go Live Criteria Management - May – summary status

Purpose to provide assurance of preparations for implementation / rule commencement out from Industry Test – allow time for finalising business preparations

Initiative	Criteria	Participant Readiness	Checkpoint- Prior to Industry Test period	Contingency	Current Status 21/3
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	End April	AEMO to defer SAPS initiation until criteria met – AEMO rules non compliance	AMBER – Delivery Pressure continues as Internal Testing Timeframes impacted in lead up to go-live criteria checkpoints
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 (in discussion)	End April	Potential Phased implementation- AEMO procedural non-compliance	Consultation to consider 1 November Procedure Effective Date
B2B 3.8	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	End April	Extension of current (manual) workaround process AEMO procedural non-compliance	Internal Testing pressures relating to SAPS but considered on track

\* non-delivery of individual components of May release, potential to result in deferral of entire release



# SAPS – MSRP Registration Briefing and Updates

Greg Minney





## SAPS Implementation – Registration of MSRPs

- Registration guides and forms for the registration of MSRPs will be available from 31<sup>st</sup> March
- Registration applications for intending MSRPs will be accepted commencing 17<sup>th</sup> April
- Subject to demand – AEMO will provide a walkthrough of Registration requirements in the Week commencing 10<sup>th</sup> April to assist intending applicants in responses required
- Alternatively individual questions can be submitted to [onboarding@aemo.com.au](mailto:onboarding@aemo.com.au)

# 6. August – October 2023 Release

# August – October release

Four major deployments included in this release:

1. IESS – Aggregated Dispatch Conformance (**9 August**)
2. Fast Frequency Response (**9 August** and **9 October**)
3. Increased MT PASA information (**4 October** and **9 October**)
4. 5MLP – Updates to 5 Minute Load Profile Calculation (**1 October**)

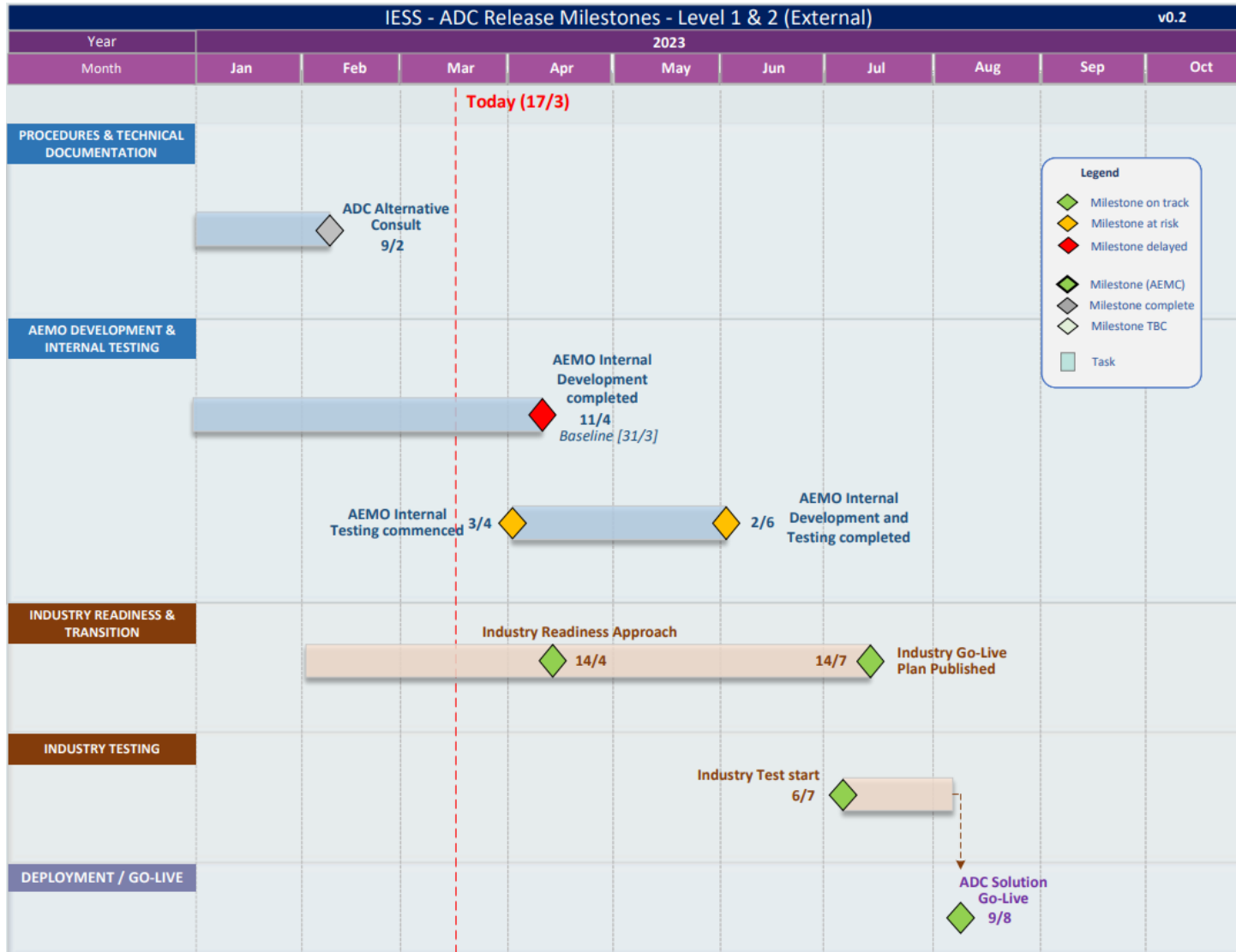
# IESS – Aggregated Dispatch Conformance

09 August 2023 release

Emily Brodie



# IESS (ADC) milestones and progress



## RELEASE COMMENTARY

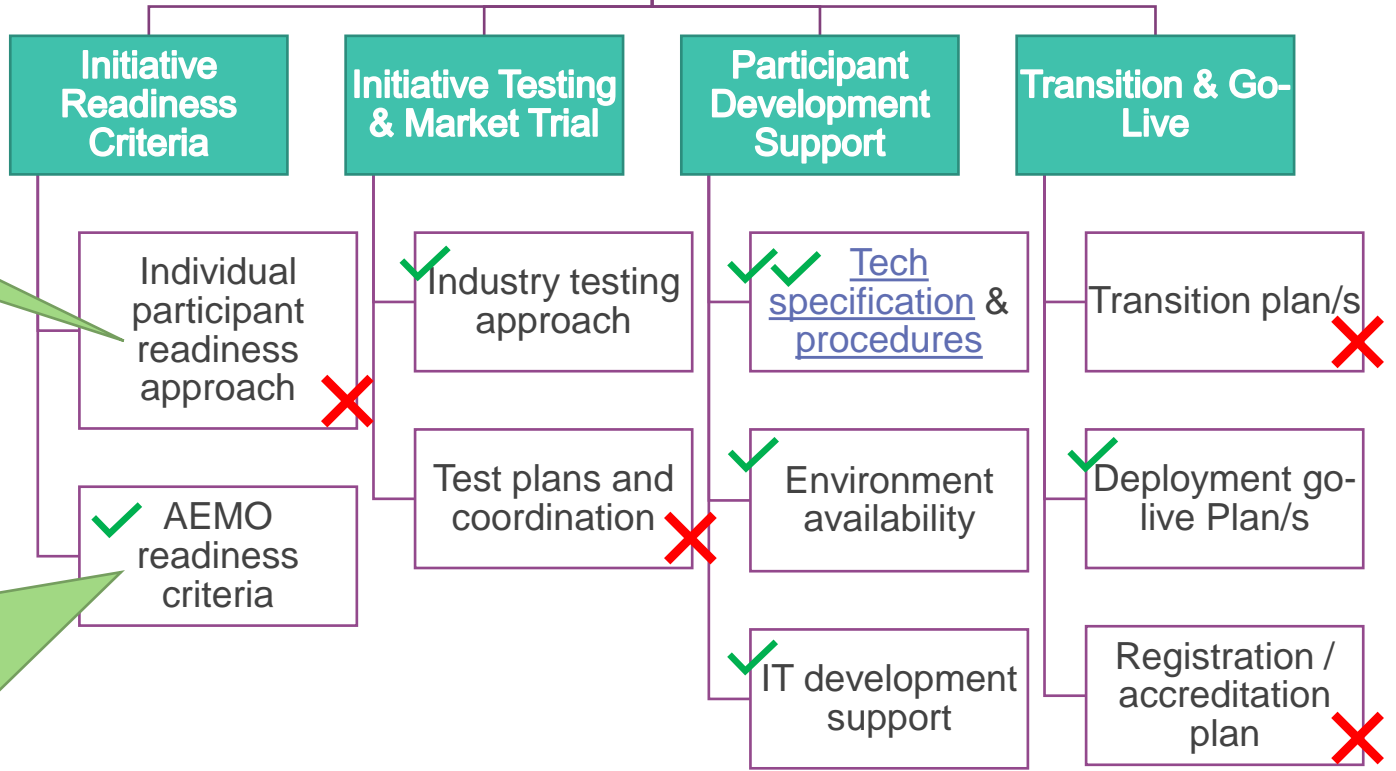
- ✓ [Dispatch Procedure](#) consultation complete
- ✓ [EMMS tech spec](#) complete
- No further changes to market interface required for ADC implementation
- AEMO IT design and development in progress
- Internal AEMO Development completion has been delayed 2 weeks for one component.
  - Internal testing approach will be adjusted to accommodate this, with no expected impact to industry test readiness.
- ADC industry readiness approach in next slide.

# Industry implementation approach: IESS (ADC) Aug 2023

## IESS (ADC) READINESS APPROACH

Individual participant (or participant category) readiness is **not** a dependency for go-live.

- AEMO Market systems updated and tested
- AEMO business needs to be ready to operate
- AEMO IT support needs to be in place
- Individual participant (or participant category) readiness is **not** a dependency for go-live.



**X** Not required  
**✓** Expected  
**✓✓** Complete

RISK & CONTINGENCY MANAGEMENT **✓**

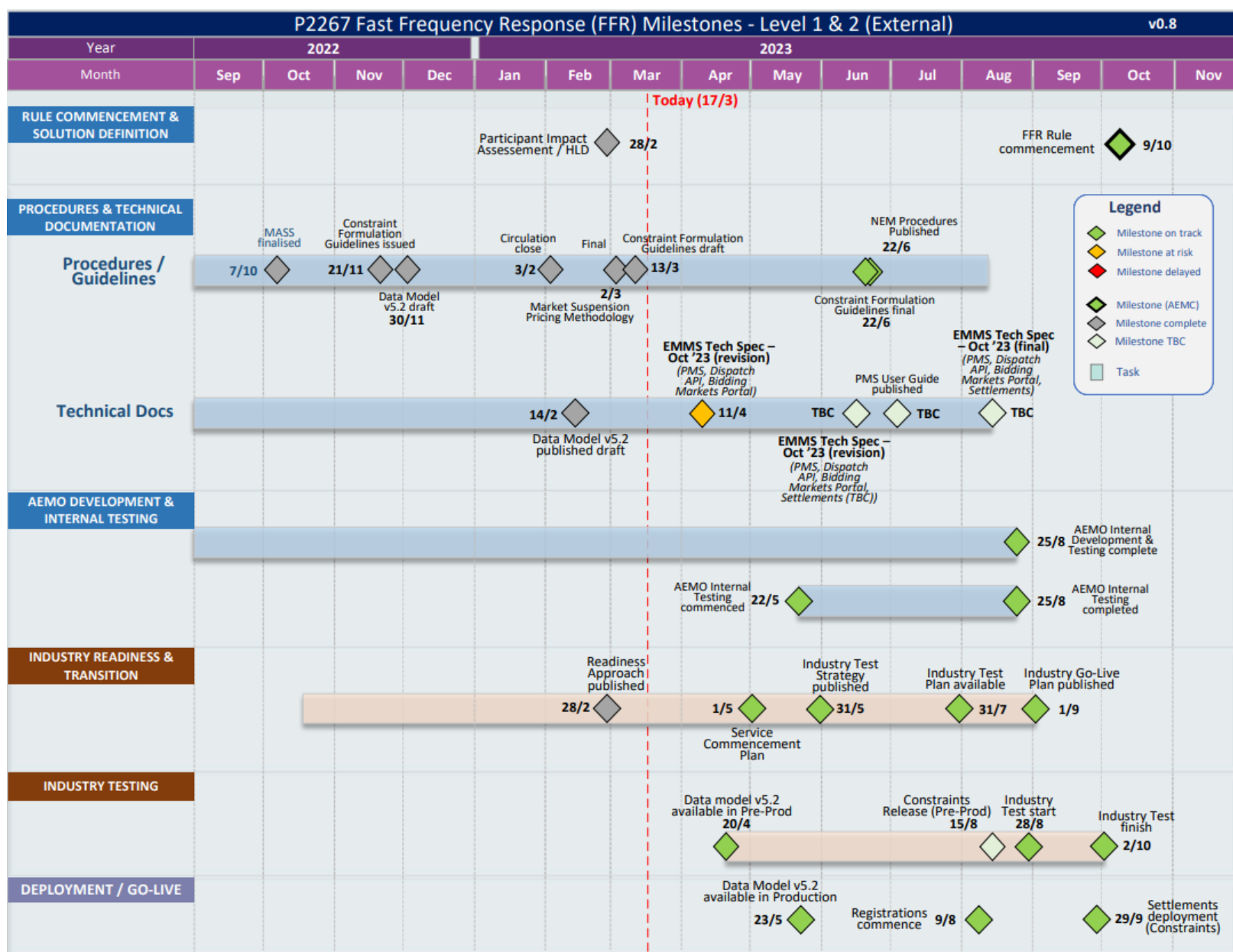
INITIATIVE READINESS REPORTING & GO-LIVE CRITERIA MANAGEMENT **✓**

# Fast Frequency Response

Greg Minney / Carla Ziser



# FFR Milestones and progress



## Release Commentary

- FFR Changes included in MMS 5.2 data model specification
- Service Commencement plan, to provide outline of approach to commencement of new services, draft available 6 April.
- Technical Spec for PMS, Dispatch API, Bidding and Markets Portal updates due 11/4 remains at risk. Actions have been taken to increase resourcing for the development and publication of the draft specifications. Release date is currently being confirmed, along with remaining spec releases
- AEMO development is in progress and on track
- FFR will involve multiple deployments to enable progressive uptake of data and support participant registration and offers ahead of 9<sup>th</sup> Oct Rule commencement



# Readiness for Market Start

The Service Commencement Plan for FFR will be published in early April on [AEMO | Fast Frequency Response](#).

## Components of the Service Commencement Plan

### Registration process

- Facilitating registration of eligible FCAS providers prior to market start

### Determining the FCAS requirement

- The approach to determining the amount of each service required under different power system conditions in order to maintain security (consistent with the Frequency Operating Standard)

### Implementing the requirement

- Timelines for transitioning from current FCAS requirements to the new model

**AEMO encourages delegates with suitable FCAS subject matter expertise to attend the ASTAG session in mid April 2023, where the Service Commencement Plan will be discussed.**  
Those interested in attending can email [FFRconsultation@aemo.com.au](mailto:FFRconsultation@aemo.com.au)

# Feedback discussion points

Participant feedback requested

Further information on Fast Frequency Response is available in appendix A

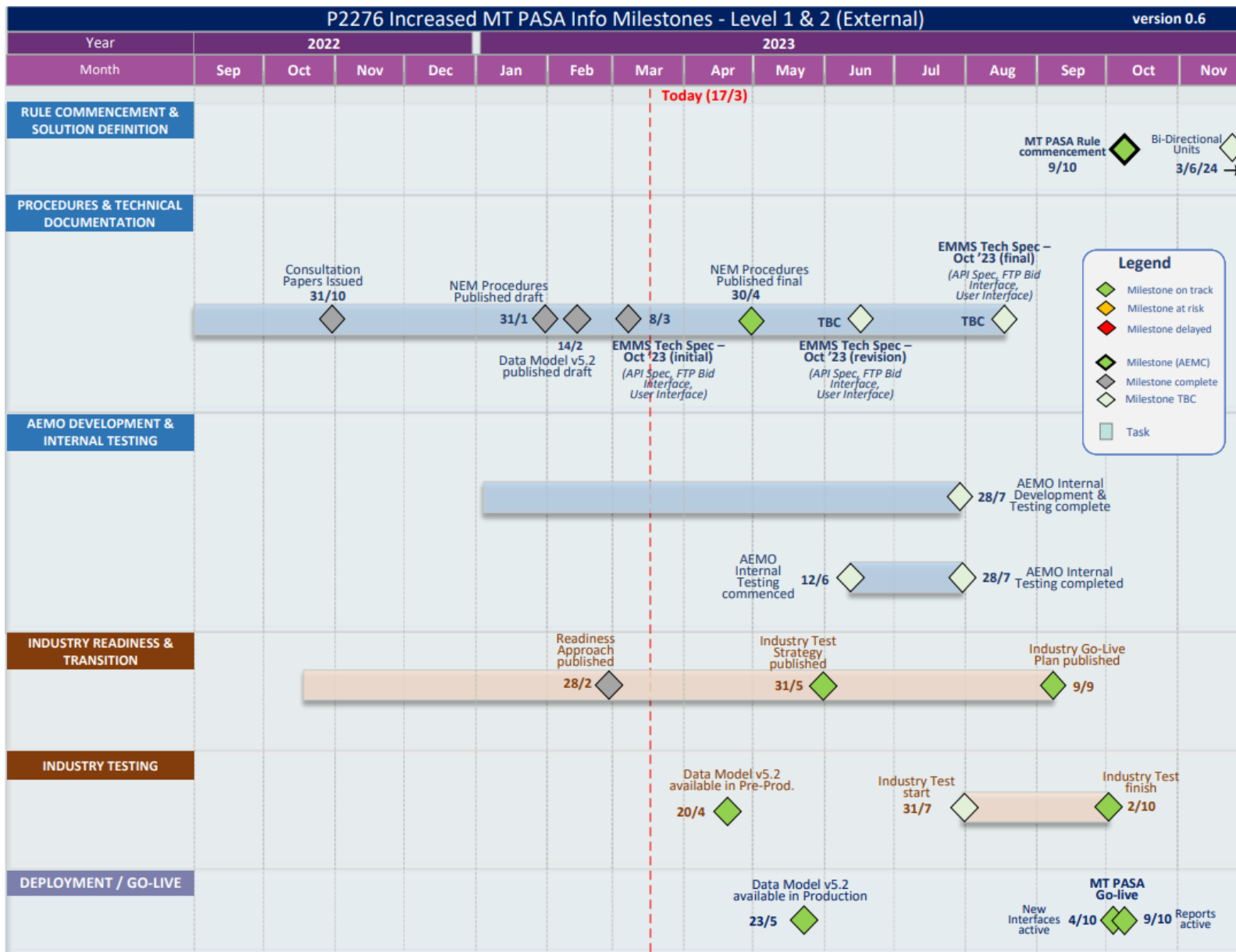


# Increased MT PASA Information

Greg Minney



# MT PASA Milestones and progress



## Release Commentary

- Procedures draft consultation response period completed; no departure from proposed approach noted
- AEMO IT Design and development in progress and on track
- EMMS Data Model updated to include MT PASA reporting information
- Initial Technical Specification issued 8/3.

# Feedback discussion points

Participant feedback requested

Further information on Increased MT PASA Information is available in appendix A

# Metering Exemption Status

Gareth Morrah



# Metering Exemptions - MSDR

- Implementation of Metering Exemptions will require further consultation to confirm MC obligations and agreed solution approach:
  - Consultation expected to commence mid-April
  - Pre consultation workshops for MC's will be established to assist understanding of proposed solution approach
  - Consultation process will establish Procedure effective date, taking into account MC impact
    - Current expectation is for late 2<sup>nd</sup> half 2023
  - Focus will be on process updates as data values were established during MSDR consultation
- MSATS Technical Specifications will be updated to reflect proposed solution approach
- Industry Testing and deployment approach will be confirmed in line with Procedure effective date



# 5MLP Confirmation

Jim Agelopoulos





# 5MLP Confirmation

- Procedure effective date for 5MLP change is 1 October
- No changes to technical specifications are required to support this change
- Industry Testing period and approach will be established, noting the overlap with FFR testing, which will require co-ordination of settlement runs

# Industry Testing Approach

Greg Minney



# Suggested Testing for Q3 and Q4 Releases.

Projects	Suggested Testing
ADC - Aggregated Dispatch Conformance - IESS	<ul style="list-style-type: none"> <li>- Assist any participant who want to industry test with AEMO</li> </ul>
MT PASA	<ul style="list-style-type: none"> <li>- Scheduled generators can use additional fields on screen and via FTP</li> <li>- Scheduled generators can use submit via API</li> <li>- Scheduled generators can see the changes in the data model</li> <li>- NEM Report changes to accommodate new fields</li> </ul>
FFR - Fast Frequency Response	<ul style="list-style-type: none"> <li>- Register to provide the new very fast FACS service</li> <li>- Verify offer in new FFR format for FACS</li> <li>- Existing FCAS participants not transition to FFR can regression test offer functionality</li> <li>- Settlement changes for generators and load market customers showing recovery calculations for the new service</li> <li>- Settlement reports and data model will reflect the additional information</li> </ul>
5MLP	<ul style="list-style-type: none"> <li>- Settlement run in support of changes to the profiling of 15 and 30 minute meters to reflect updated profiling methodology</li> </ul>
Metering Exemptions	TBA
CDR	TBA

# 7. June 2024 Release

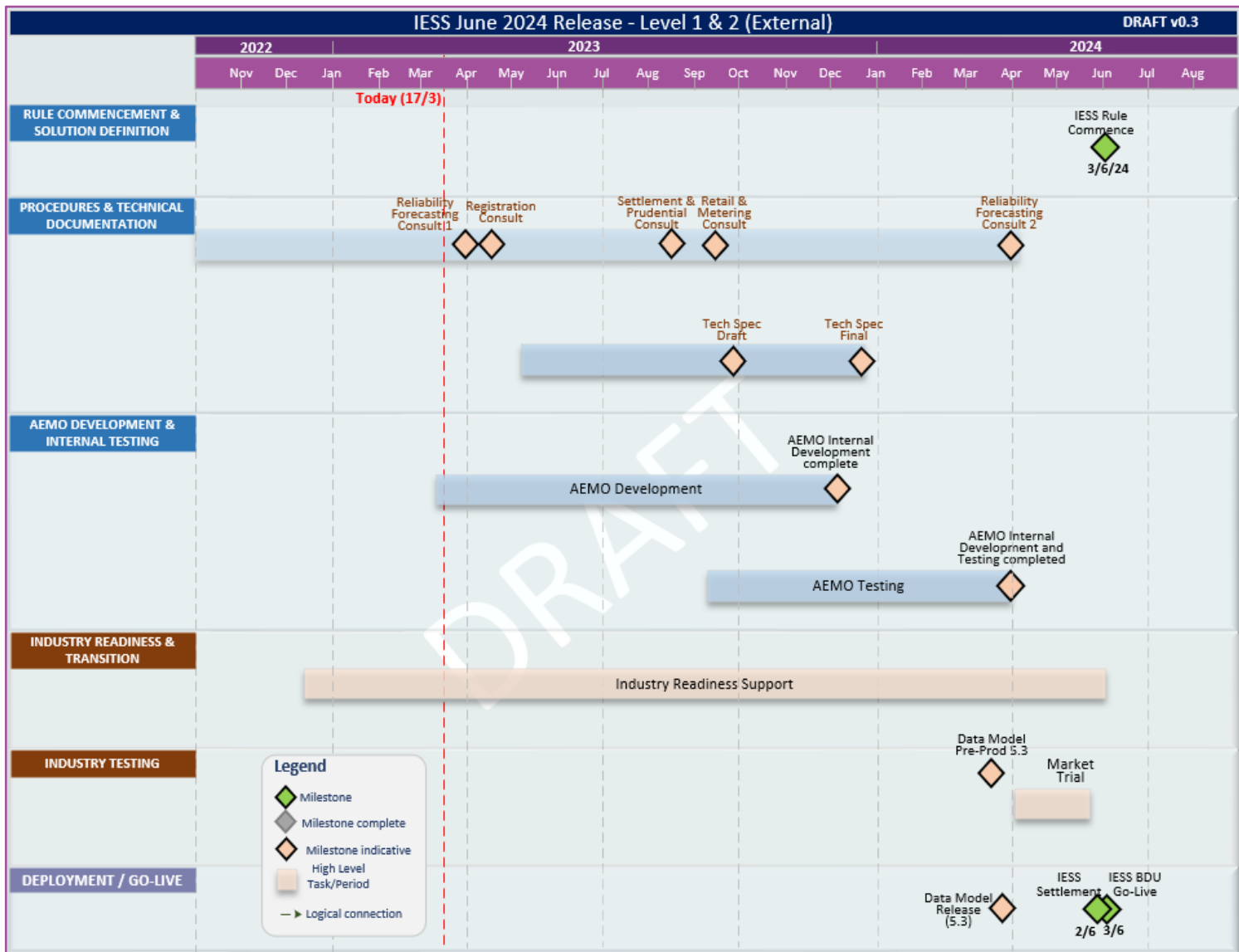


# Progress Update

Greg Minney



# June 2024 - IESS Final Release



## RELEASE COMMENTARY

- [Procedures consultation](#) proceeding through EWCF/ ERCF\*
- BDU stakeholder session held Tue 21 Mar
  - **Seeking detailed feedback on BDU implementation by Tue 04 Apr**
- Following milestones to be defined and confirmed:
  - Draft technical documentation
  - Industry readiness support
  - Market trial plan
  - Transition and go-live plans

\*Electricity wholesale / retail consultative forums

# Feedback and Next Steps on IESS Readiness Approach



Emily Brodie



# IESS readiness approach: Feedback

- Draft IESS readiness approach was presented at Tue 28 Feb meeting
- Requested initial feedback by Fri 17 Mar, four responses received

RESPONSES	NEXT STEPS
<p><b>One</b> response provided general support for the IESS readiness approach.</p>	<p>Noted</p>
<p><b>Two</b> responses emphasising that:</p> <ul style="list-style-type: none"> <li>• For quality solutions to be deployed, there needs to be sufficient time <u>and</u> contingency for participants to complete design, development and testing ahead of market trial.</li> <li>• In particular, technical specifications need to be released early enough to avoid squeezing test timeframes.</li> </ul> <p><b>NOTES:</b></p> <ul style="list-style-type: none"> <li>• In <a href="#">IESS Settlements information session</a> (Tue 21 Feb), stakeholders remarked on importance of having ample time to update their systems.</li> <li>• In BDU Stakeholder Session (Tue 21 Mar) several participants also indicated need to have technical specifications finalised and published with enough time for them (or their vendors) to design, develop, test and deploy.</li> </ul>	<p><b>Implementation Forum members</b> to provide detailed feedback on:</p> <ul style="list-style-type: none"> <li>• <b>when</b> technical specifications are needed and timing on their finalisation</li> <li>• <b>what</b> factors contribute to these timings</li> <li>• <b>what</b> other support or approaches are desired to support participant solution development</li> </ul> <p><b>AEMO</b> to:</p> <ul style="list-style-type: none"> <li>• Further define key dates e.g. tech spec draft and final publication, market trial period</li> <li>• Raise an industry readiness risk (including associated mitigations and contingencies) on the impact of AEMO schedule changes to participants' projects.</li> <li>• Provide ongoing and transparent reporting of status, progress and risks/issues (via this forum) so contingencies can be applied if need be.</li> </ul>
<p><b>One</b> response posing several specific questions relating to IESS high-level design and implementation.</p>	<p>Preparing individual response.</p>



# IESS settlement changes

- Held [IESS settlements stakeholder information session](#) 21 Feb 2023.
- Purpose:
  - Gather industry settlements experts to discuss IESS settlements changes
  - Seek industry feedback on the draft implementation design and related matters
- **No substantive feedback to date**
- AEMO encourages participants to fully consider the IESS settlement table changes as these could cause material impact to participants' settlement systems
  - Everyone will need to update their systems to align with the new energy tables
  - Current settlement tables for billing week **after** 2nd June 2024 would not be populated
  - For any billing weeks **prior** to 2nd June 2024, i.e. the 20-week and 30-week revision, the data would continue to be stored in the current tables
  - Basing reconciliation on new energy tables, single source of truth.

Please consider IESS settlement changes when providing feedback on implementation timings

# Next steps

- Please consider providing feedback on BDU implementation by **Tue 04 Apr**
- Implementation forum members to provide feedback by **Fri 14 Apr**
- At Wed 26 April meeting, AEMO to present for consideration:
  - Participant readiness impact assessment
  - Final IESS readiness approach. Will include:
    - Consideration of feedback received to date
    - Indicative dates for developing and engaging on plans (e.g. test, transition, go-live)

**\*\*Reminder that consultation on the [expedited IESS implementation rule change](#) closes on Thu 30 Mar\*\***

- Key amendments to IESS rule being assessed:
  - Extend ADC to all generating systems
  - Remove the option for BDUs & semi-scheduled generating units to submit fast-start inflexibility profiles (FSIP)
  - Align NECR start with the start of a NEM billing week.
- Please consider making a submission.

# 8. Upcoming Engagements

# Upcoming Engagements

April						
S	M	T	W	T	F	S
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

May						
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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
<b>Program forums</b>
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
<b>Initiative specific meetings</b>
NEM Reform Foundational and Strategic initiatives
<b>Other</b>
National Public Holiday
State/Territory Public Holiday
NEM Reform Program General Stakeholder & Roadmap Briefing

To learn more about these events, please visit AEMO's [Industry meeting calendar](#) or contact the program at [NEM2025@aemo.com.au](mailto:NEM2025@aemo.com.au).

# 9. General Questions & Other Business



[NEM2025@aemo.com.au](mailto:NEM2025@aemo.com.au)



[AEMO | Implementation Forum](#)





# API Update

Simon Tu



# API Update

## AGL has several open issues with AEMO APIs:

1. B2B Outbound delivery via API resulting in stop files.
2. CDR API Performance issues (time-out-failures).

B2B Outbound delivery via API	
<b>Problem Statement</b>	AGL sees a high frequency of Stopfiles and outbound messages queuing in their HubQueue for the B2B Push API B2BMessagingAsync.
<b>Scope of Issue</b>	The issue, as reported, appears to impact AGL only.  Note: AGL raised that there is a similarity to problems experienced by Endeavour Energy; AEMO believes the root cause is different. Endeavour Energy's issues appear to have been rectified since the deployment of a fix into production in Nov 2022.
<b>Root cause</b>	AEMO is still investigating the issue.

Performance issues with CDR API	
<b>Problem Statement</b>	High numbers of time-out-failures for calls to the CDR APIs <code>getUsageForServicePoint</code> and <code>getUsageForSpecificServicePoints</code> .
<b>Scope of Issue</b>	Issue is industry-wide.
<b>Root cause</b>	Performance issues have been identified due to the size of the data set (24 months of meter data is supported) and at what point in our infrastructure the filtering of the data set is undertaken.  AEMO is currently working on a Proof of Concept (PoC) to address the issue; once the outcome of the PoC is known, AEMO can provide dates for its remediation.

## AGL also raised concerns about the availability of the Wholesale bidding APIs:

- AGL raised concern that where the Wholesale bidding API is unavailable, so too is the Browser interface; in this case, FTP is the backup channel.
- AEMO recognises this as a current issue to be addressed as a non-functional requirement for the IDX program of work.
- IDX program of work will take as a principle that no single point of failure impacts data exchange services across multiple channels.

# IDAM/IDX/PC Representation

Ulrika Lindholm

A decorative graphic in the bottom right corner consisting of several overlapping rectangular blocks in various shades of purple, ranging from dark to light.

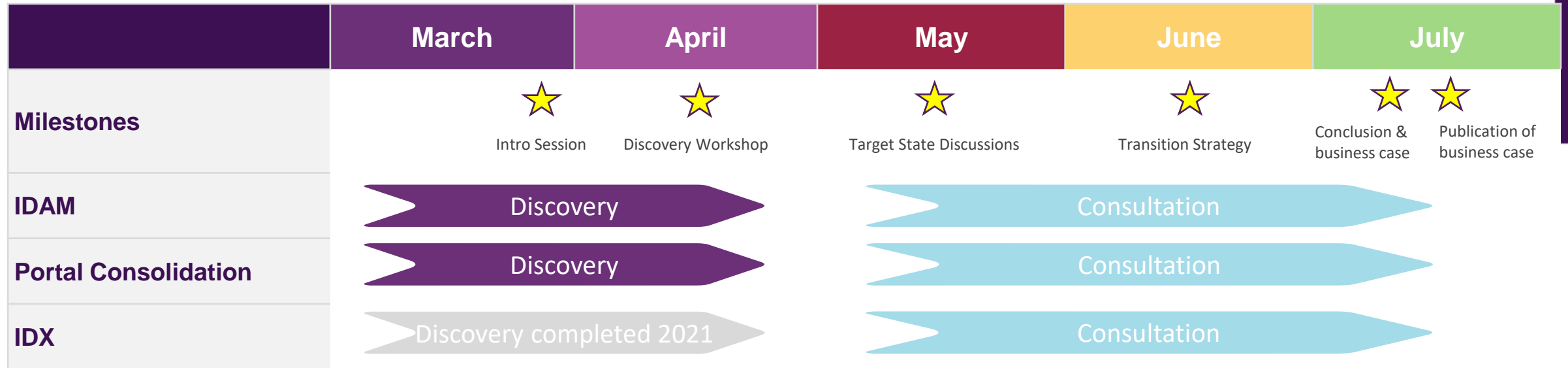


# Background – Strategic / Foundational initiatives

Pathway	Initiatives	Description
<b>Foundational</b> <ul style="list-style-type: none"> <li>Foundational dependency work to deliver an uplift to base capability on which reforms are dependent</li> </ul>	<ul style="list-style-type: none"> <li>Identity Access Management (IDAM)</li> </ul>	<ul style="list-style-type: none"> <li>A unified mechanism to authenticate participant users and applications when accessing AEMO services.</li> </ul>
	<ul style="list-style-type: none"> <li>Industry Data Exchange (IDX)</li> </ul>	<ul style="list-style-type: none"> <li>Unified access to AEMO services across all markets, using modern authentication and communication protocols, facilitating a cohesive approach to industry data exchange. This will leverage IDAM</li> </ul>
<b>Strategic (Related)</b> <ul style="list-style-type: none"> <li>Strategic dependency work to effectively futureproof capabilities and scalability of systems thereby avoiding investment in systems that will become end-of-life shortly after the reforms take effect</li> </ul>	<ul style="list-style-type: none"> <li>Portal Consolidation (PC)</li> </ul>	<ul style="list-style-type: none"> <li>A 'single pane of glass' user experience for participants accessing all AEMO browser based services</li> </ul>

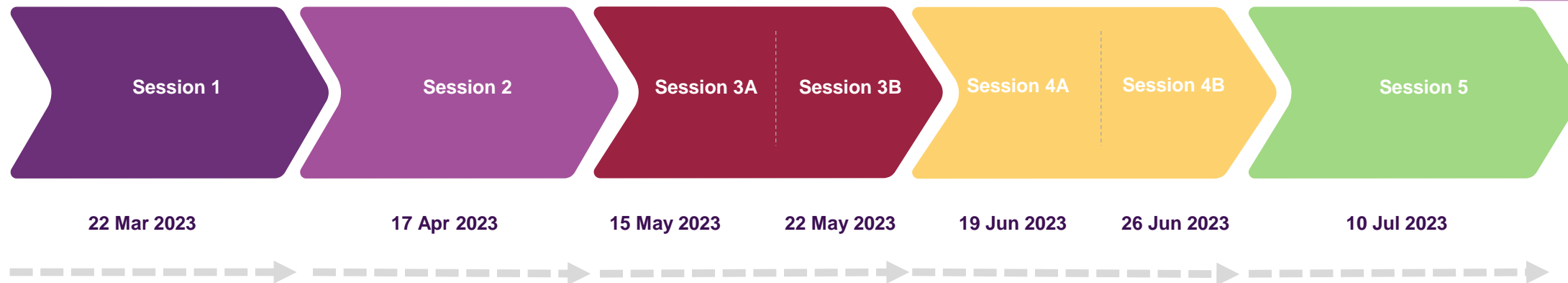
- These initiatives have been identified for the NEM Reform Program and included in the [NEM Reform Implementation Roadmap](#).

# Progressing IDX, IDAM and PC



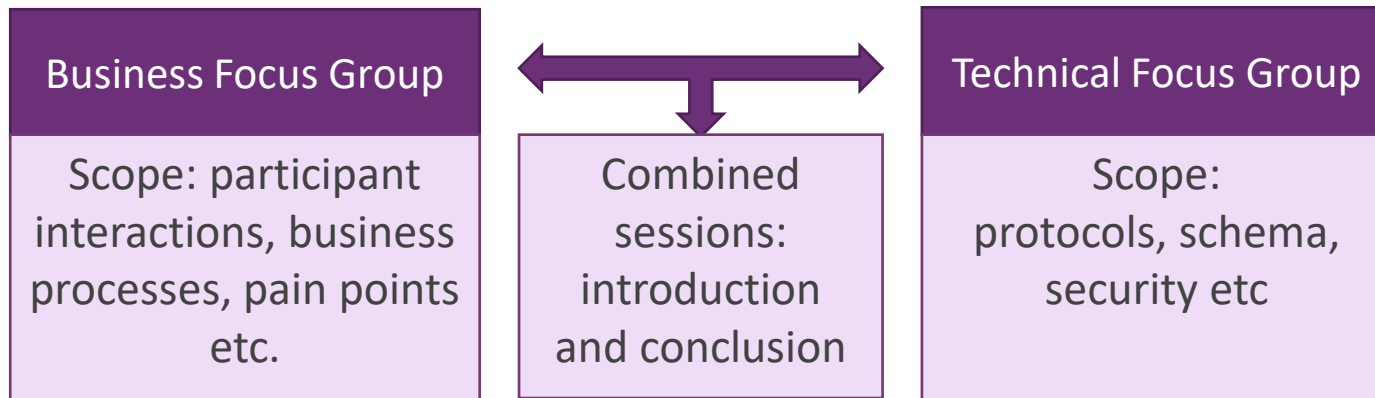
- The initiatives are at a Discovery stage and as part of the product roadmap AEMO will consult with industry, including the Reform Delivery Committee, to determine an appropriate transition strategy prior to any funding decision being made.
- AEMO facilitated a Discovery process for the Industry Data Exchange initiative in Feb-June 2021.

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

# Call for nominations



Scope includes DER, Electricity Retail, Electricity Wholesale, (less emphasis on Gas Retail).

Sample topics to help industry participants identify the right contributors:

- Approach for areas that have legacy structures vs areas that don't
- Where business value is best achieved
- Sunset and N-1 issues as part of transition

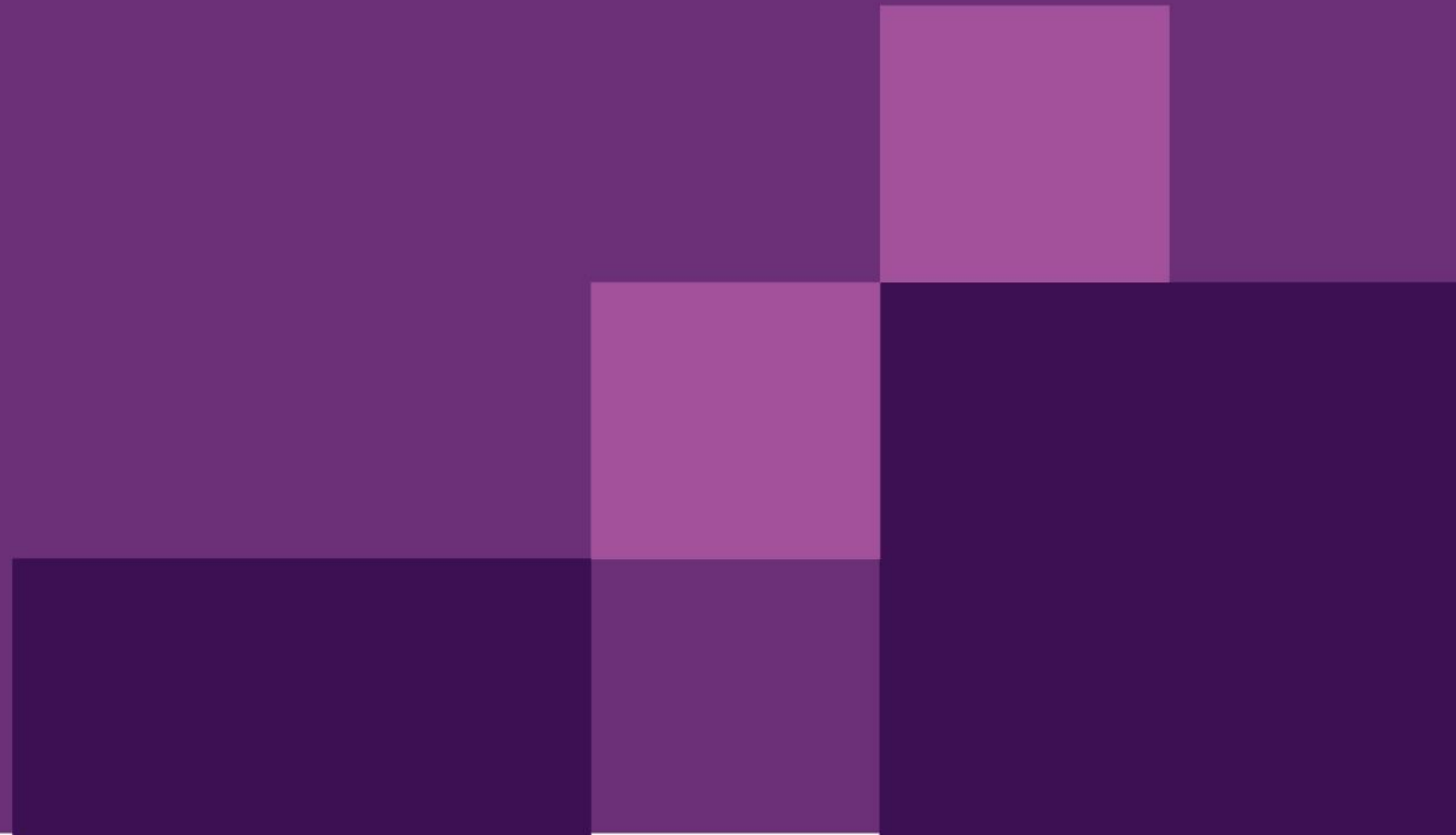
AEMO is seeking nominations for these Focus Groups. An information session is held on 22 March 11.30am-12.30pm AEDT to inform participants of the scope and approach. Nominations to be sent to [NEM2025@aemo.com.au](mailto:NEM2025@aemo.com.au).

# Appendix A: Supplementary Information

- **Increased MT PASA Information**
- **Fast Frequency Response**



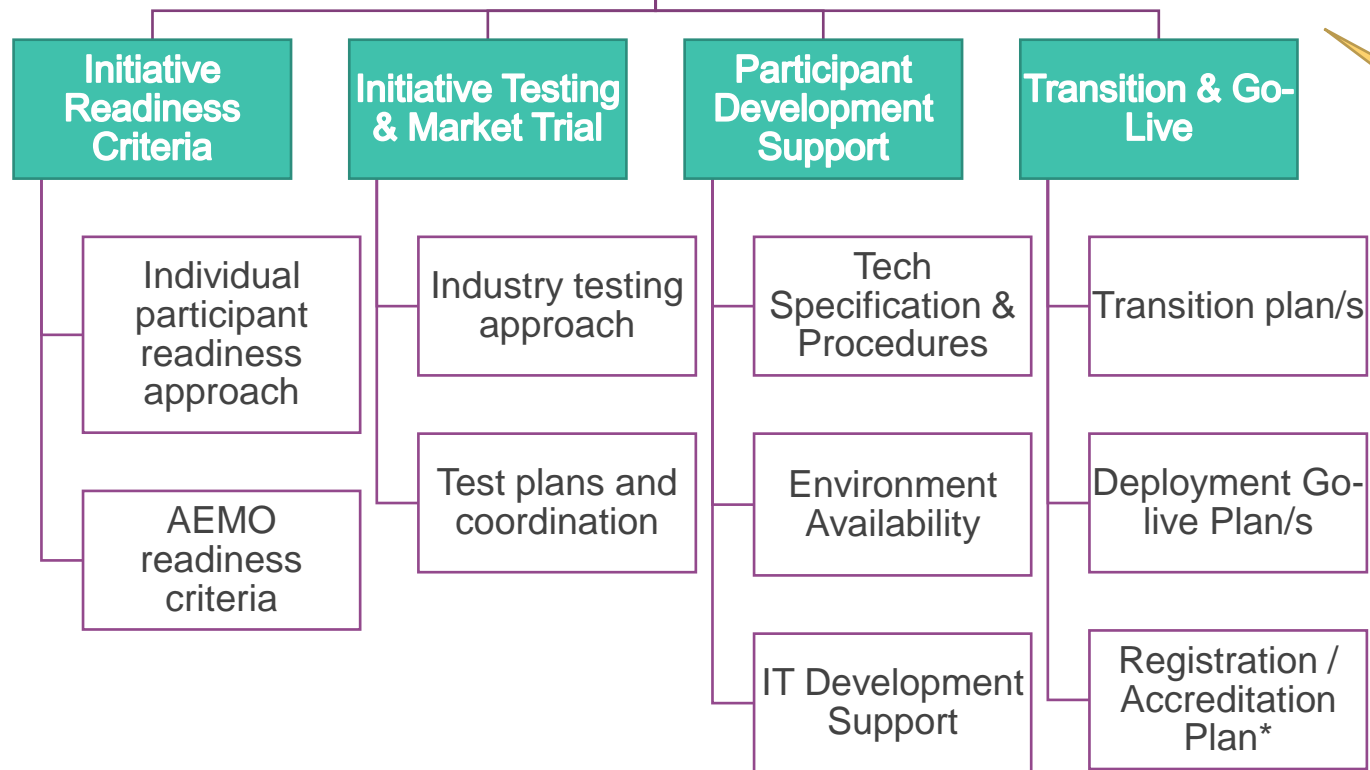
# Increased MT PASA Information



# Industry Implementation Approach – MT PASA

## NEM REFORM READINESS STRATEGY (ALL INITIATIVES)

### INDIVIDUAL INITIATIVE READINESS APPROACH



MT PASA readiness approaches adopt this framework

\*If required

## RISK & CONTINGENCY MANAGEMENT

## INITIATIVE READINESS REPORTING & GO-LIVE CRITERIA MANAGEMENT

# Initiative Readiness Criteria - MT PASA

Go Live Criteria Management summarises the criteria for decision making on readiness for the initiative to go-live in line with rule commencement timeframes and the efficient operation of the NEM and approach for the initiative

Readiness Component	Proposed Initiative Approach	Rationale
Go-Live Criteria	<p>MT PASA go-Live criteria will reflect Technical Readiness for go-Live and AEMO preparedness to accept updated availability and recall information.</p> <p>Impacted participant readiness will not be considered as criteria for go-live but as individual compliance factor</p>	
Criteria Components	<p><b>Initiative Readiness</b> components will consist of :</p> <p><b>Solution Readiness:</b> Market System Changes required to meet initiative requirements</p> <p><b>AEMO Business Readiness:</b> AEMO business operations and IT Support prepared to operate enhancements from production Deployment</p> <p><b>Participant Readiness:</b> Impacted participant readiness to provide increased MT PASA information is a participant compliance requirement and will not prevent initiative go-live</p>	Ability for AEMO to receive and process updated information is required for successful implementation of rule
Go-live Decision Management	Initiative go-live to be made on recommendation of AEMO Program on the basis of evaluation against agreed criteria components	
Industry Notification	<p>Decision Milestone to be established for communication of AEMO readiness to deploy and accept information – in line with commencement of Industry Test Period.</p> <p>Progress to be managed via ongoing progress / milestone reporting including deployment for Industry Testing</p>	To be included in project schedules, with Industry communication approach to be determined during execution phase



# Initiative Readiness Reporting

Initiative Readiness Reporting outlines the form of participant readiness reporting required to meet go-live criteria decisions, and provide industry wide view on the progress towards implementation for AEMO and Industry. The approach considers whether the initiative requires formalised participant readiness reporting to be implemented

Readiness Component	Proposed Initiative Approach	Rationale
Formal Participant Readiness Surveys and Reporting	Formal participant reporting of readiness not required for Initiative	Impact is to a defined group of participants, with individual participant readiness not impacting other participants preparations
AEMO progress reporting	MT PASA progress reporting against defined L1/ L2 milestones as component of PCF and Implementation Forum reporting. This will include reporting against the agreed readiness criteria and checkpoint establishment prior to go-live	

# Initiative Industry Testing

Outlines the expected approach to the conduct of Industry testing, providing and view on release based industry testing requirements. This approach to be validated with industry as part the Industry Test Strategy development

Readiness Component	Proposed Initiative Approach	Rationale
Industry Test Approach	<p>Industry Test Approach to be agreed with participants as component of October Release , with engagement on the scope and timing via ITWG from May</p> <p>Testing Approach for MT PASA will follow and Industry Test approach, where participants will be able to exercise their selected population approach (including API delivery), in line with their own timeframes. No co-ordinated industry test scenarios are required</p>	Participants can verify success of their changes without reliance on other participant responses – NEM reports available to all
Release Testing Requirements / Considerations	MT PASA Industry Testing will overlap with Industry Test planning and execution for ADC , FFR and potentially Metering Exemptions, with overall co-ordination performed at a release level	

# Participant Development Support

Outlines the Initiative approach to the provision of technical and functional support for participants in their implementation of PASA initiative. Approach is guided by the initiative impact assessment view on scale of change and spread across participant categories

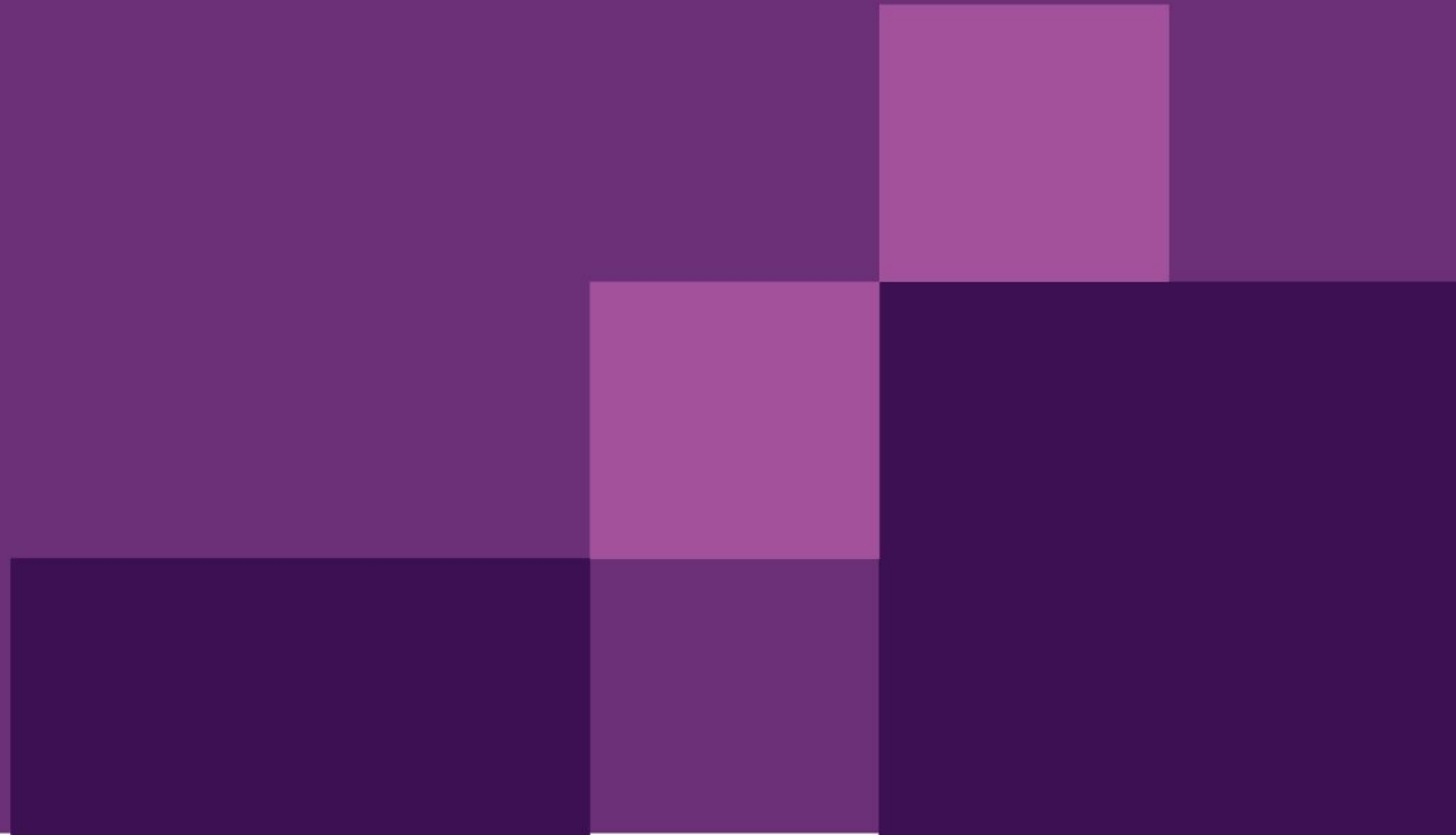
Readiness Component	Proposed Approach	Rationale
Update Market Procedures and Guidelines	Identified Procedures / guidelines / registration processes updated for new service, published in line with agreed milestones	
Update Technical Documentation (Specs, User Guides, FAQ)	Identified External guidelines and technical specs updates published in line with agreed milestones	
Update Data Model	Data model updates included in release 5.2, published in line with agreed milestones	
Update and agree external Report Formats, web Pages, etc	Consistent with procedures with Specifications available in timeframe to support participant development	
Provide Technical Implementation Support	Q&A, response to NEM2025 mailbox query, no specific focus groups to be established, technical support also available via MSUG	
Provide Impacted Participant support	Q@A, Address specific questions on specs , service introduction , process and eligibility - AEMO to support via Implementation Forum with specific briefing sessions if sufficient demand	

# Transition Support

Initiative approach to the activities required to transition into operation. Both a longer term (transition) and cutover view are included to manage the scope and timing of required transitional activity

Readiness Component	Proposed Approach	Rationale
Transition Planning and Management	Rule provides for the population of recall times / unit status for planned outages 36 months from 9 <sup>th</sup> October commencement Capability to provide increased information will be deployed from 1 October to support participant update of required information. Reporting of increased MT PASA information will commence from the 9 <sup>th</sup> October	Procedures support requirement "from 9th Oct" - software implementation in advance will support participant population ahead of 9th October - and reduce "bow wave" of updates for participants
Go-Live (Cutover) Planning and Communication	Industry Go-Live Plan will be produced to align participant and AEMO deployment activities in line with agreed deployment dates	
Industry Post Go_live Support	Project support for hyper-care/ post go live support Principle to leverage normal business support processes where possible supplemented where required to assist immediate industry issues. This may include post go-live Q&A , Issue management sessions,	Consistent with project implementation scope, API support requirements will be dependent on uptake from participants

# Fast Frequency Response

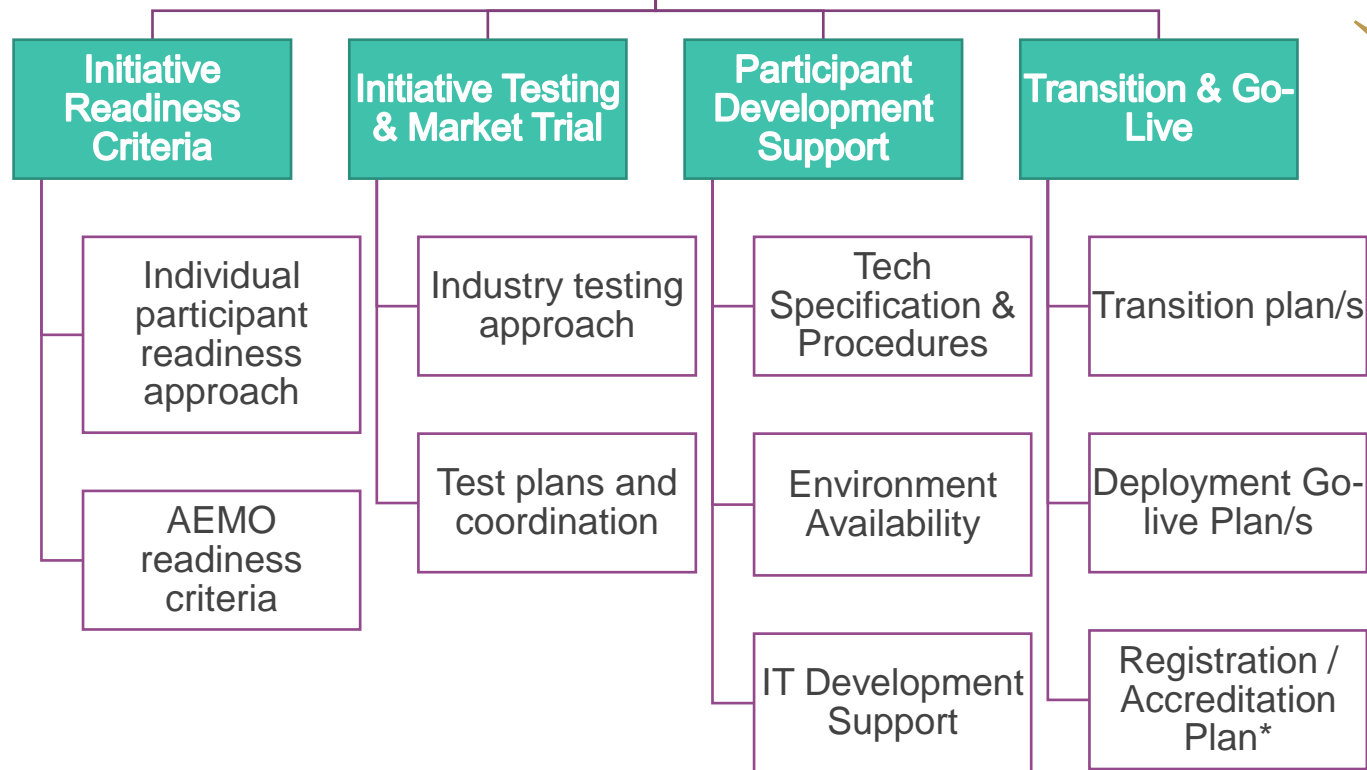


# Industry Implementation Approach – FFR

## NEM REFORM READINESS STRATEGY (ALL INITIATIVES)

Summary Plus  
Feedback Question?

### INDIVIDUAL INITIATIVE READINESS APPROACH



FFR readiness approaches adopt this framework

\*If required

### RISK & CONTINGENCY MANAGEMENT

### INITIATIVE READINESS REPORTING & GO-LIVE CRITERIA MANAGEMENT

# Go-live Criteria Management

Go Live Criteria Management summarises the criteria for decision making on readiness for the initiative to go-live in line with rule commencement timeframes and the efficient operation of the NEM and approach for the initiative

Readiness Component	Proposed Initiative Approach	Rationale
Go-Live Criteria	FFR go-Live criteria will reflect Technical Readiness for go-Live and readiness for service introduction	
Criteria Components	<p><b>Technical Initiative Readiness</b> components will consist of</p> <p><b>Solution Readiness:</b> System Changes required to meet initiative requirements and ongoing stability of existing settlements processes</p> <p><b>AEMO Business Readiness:</b> Procedures and business operations in place</p> <p><b>AEMO IT Support Readiness:</b> IT operational support for solution in place</p> <p><b>Participant Readiness:</b> As an optional service , no pre-requisite participant activity as dependency for technical initiative readiness</p> <p><b>Market Readiness For Service commencement:</b> to be evaluated based on number of participants registered to provide service, offers in place , assessment of service requirements for market operation.</p>	Technical Capability may be available, but given the optionality of service uptake, Very Fast Services may not be viable at rule commencement
Go-live Decision Management	<p>Decision Milestone to be established for communication of:</p> <p><b>Technical Go-Live</b> – Decision point for proceed decision based on criteria evaluation, at least 1 month prior to rule commencement</p> <p><b>Service Commencement:</b> Decision point for service commencement in line with “Pre-dispatch” evaluation . Notification to Industry Via Market Notice</p>	

# Initiative Readiness Reporting

Initiative Readiness Reporting outlines the form of participant readiness reporting required to meet go-live criteria decisions, and provide industry wide view on the progress towards implementation for AEMO and Industry. The approach considers whether the initiative requires formalised participant readiness reporting to be implemented

Readiness Component	Proposed Initiative Approach	Rationale
Formal Participant Readiness Surveys and Reporting	FFR will <b>not</b> require formalised participant readiness reporting, in line with Participant readiness Criteria FFR will utilise Registration data and pre-dispatch information as indication of participant intention and readiness to commence offering Very Fast FCAS	FFR is optional service for participant offering. There are no mandatory participant transition, preparation activities that if not performed will impact technical readiness for market or other participants
AEMO progress reporting	FFR progress reporting against defined L1/ L2 milestones as component of PCF and Implementation Forum reporting. Includes milestones at risk and impact on Go-Live Decisions	FFR will implement NEM Reform framework for progress reporting



# Initiative Industry Testing

Outlines the expected approach to the conduct of Industry testing, providing and view on release based industry testing requirements. This approach to be validated with industry as part the Industry Test Strategy development

Readiness Component	Proposed Initiative Approach	Rationale
Industry Test Approach	<p>Industry Test Approach to be agreed with participants as component of October Release .</p> <p>Industry support to include extended availability of release in Pre-Prod Environment, settlement runs to be scheduled allow participant verification of end to end processes including settlement statement verification</p>	
Release Testing Requirements	<p>FFR currently scheduled to go-live in similar timeframe to MT PASA, with which it will share data model updates, and 5 MLP update (ICF060) where end to end industry testing will require scheduling and support of settlement runs to support participant verification</p>	

# Participant Development Support

Outlines the Initiative approach to the provision of technical and functional support for participants in their implementation of FFR initiative. Approach is guided by the initiative impact assessments view on scale of change and spread across participant categories

Readiness Component	Proposed Approach
Update Market Procedures and Guidelines	Identified Procedures / guidelines / registration processes updated for new service, published in line with agreed milestones
Update Technical Documentation (Specs, User Guides, FAQ)	Identified External guidelines and technical specs updates published in line with agreed milestones.
Update Data Model / AseXML Schema	Data model updates included in release 5.2, published in-line with agreed milestones
Update and agree external Report Formats, web Pages, etc	Consistent with procedures and reports published as component of Technical Specifications
Provide Participant Education (Q&A, Training Course Update, Implementation Advice)	Scheduling and requirements to be discussed at Implementation Forum MSUG sessions to support Technical Specification updates
Provide Impacted Participant support	Participant specific support via <a href="mailto:NEM2025@AEMO.com.au">NEM2025@AEMO.com.au</a> for responses to specific questions

# Transition Support

Initiative approach to the activities required to transition into operation. Both a longer term (transition) and cutover view are included to manage the scope and timing of required transitional activity

Readiness Component	Proposed Approach	Rationale
Transition Planning and Management	<p>AEMO will produce a Service Commencement Plan to communicate the decision points and activities (both AEMO and Participant) relating to the service commencement decisions.</p> <p>Transition activities will address the approach to registration updates for Fast FCAS participants, with consideration given to enabling Industry testing activities.</p> <p>Initial FCAS Service registration and participant technical capability assessment for the provision of Very Fast and other FCAS services will be considered as normal business operation.</p>	Key aspect of participant preparation is to guide AEMO decision on market readiness to commence new FCAS services and alignment of registered participants
Go-Live (Cutover) Planning and Communication	<p>Go-Live plans will cover key cutover timeframes, communications and (where required) participant co-ordinated activity to be incorporated.</p> <p>Phased deployment of capability is planned to support registration availability, dispatch data accumulation and bidding commencement prior to rule commencement dates.</p>	To reflect release strategy and timing once determined
Industry Post Go_live Support	<p>Project support for hyper-care/ post go live support</p> <p>Principle to leverage normal business support processes where possible supplemented where required to assist immediate industry issues. This may include post go-live Q&amp;A , Issue management sessions,</p>	Consistent with project implementation scope

# Appendix B: Competition law meeting protocol

# AEMO Competition Law - Meeting Protocol

AEMO is committed to complying with all applicable laws, including the Competition and Consumer Act 2010 (CCA). In any dealings with AEMO regarding proposed reforms or other initiatives, all participants agree to adhere to the CCA at all times and to comply with this Protocol. Participants must arrange for their representatives to be briefed on competition law risks and obligations.

Participants in AEMO discussions **must**:

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

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

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

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



For more information visit

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