

# Electricity Wholesale Consultative Forum (EWCF)

Meeting #3  
21 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 | 1:00pm – 1:05pm | <b>Welcome</b>   | Chris Muffett (AEMO)   |
| 2 | 1:05pm – 1:10pm | <b>Actions &amp; Feedback from Previous Meeting</b>  | Chris Muffett (AEMO)   |
| 4 | 1:15pm – 2:25pm | <b>In-flight Reform Update:</b> <ul style="list-style-type: none"><li>• Integrated Energy Storage System (IESS)</li><li>• Fast Frequency Response (FFR)</li><li>• Frequency Performance Payments (FPP)</li><li>• Enhancing information in MT PASA</li><li>• Operational Security Mechanism (OSM)</li></ul> | AEMO reform leads: <ul style="list-style-type: none"><li>• Emily Brodie</li><li>• Carla Ziser</li><li>• Hugh Ridgway</li><li>• Chris Muffett</li><li>• Chris Muffett</li></ul> |
| 5 | 2:25pm – 2:30pm | <b>Other Reforms</b> <ul style="list-style-type: none"><li>• Identity and Access Management (IDAM)</li><li>• Industry Data Exchange (IDX)</li><li>• Portal Consolidation (PC)</li></ul>  | Ulrika Lindholm (AEMO)   |
| 6 | 2:30pm – 2:35pm | <b>Procedures Consultation Roadmap</b>   | Nicole Nsair (AEMO)  |
| 7 | 2.35pm – 2:45pm | <b>Upcoming Engagements</b>  | Paul Johnson (AEMO)  |
| 8 | 2:45pm – 3:00pm | <b>General Questions and Other Business</b>  | Chris Muffett (AEMO)   |

Appendix A: Competition law meeting protocol and AEMO forum expectations

Appendix B: Industry consultation schedule (IDAM IDX PC)

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

## 2. Actions & Feedback from Previous Meeting

# Actions & Feedback from Previous Meeting

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

| #       | Topic                                | Action   | Responsible | Status  |
|---------|--------------------------------------|--|-------------|---|
| 2.4.0.1 | MT PASA Tech Spec                    | AEMO to confirm when the MT PASA tech spec will be published.  | AEMO        | Published - 8 March   |
| 2.7.0.1 | General questions and other business | AEMO to confirm if the EWCF will be involved with Cyber/SOCI.  | AEMO        | Enquiries relating to Cyber/SOCI should be directed to <a href="mailto:NEM2025@aemo.com.au">NEM2025@aemo.com.au</a> |
| 2.7.0.2 | General questions and other business | AEMO to look at options for a repositories for changes to processes or procedures and work with the project leads. | AEMO        | Table to be included in the next NEM Reform Newsletter  |

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

# 4. In-flight Reform Update

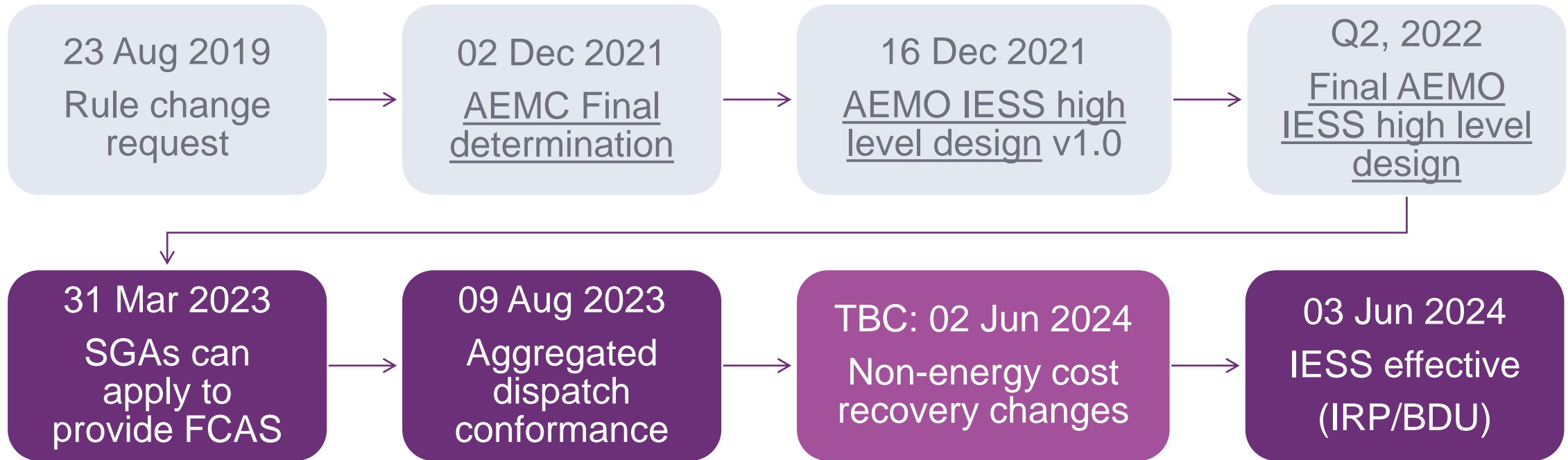
# Integrating Energy Storage Systems (IESS)

Emily Brodie





# Refresher: IESS high-level timeline

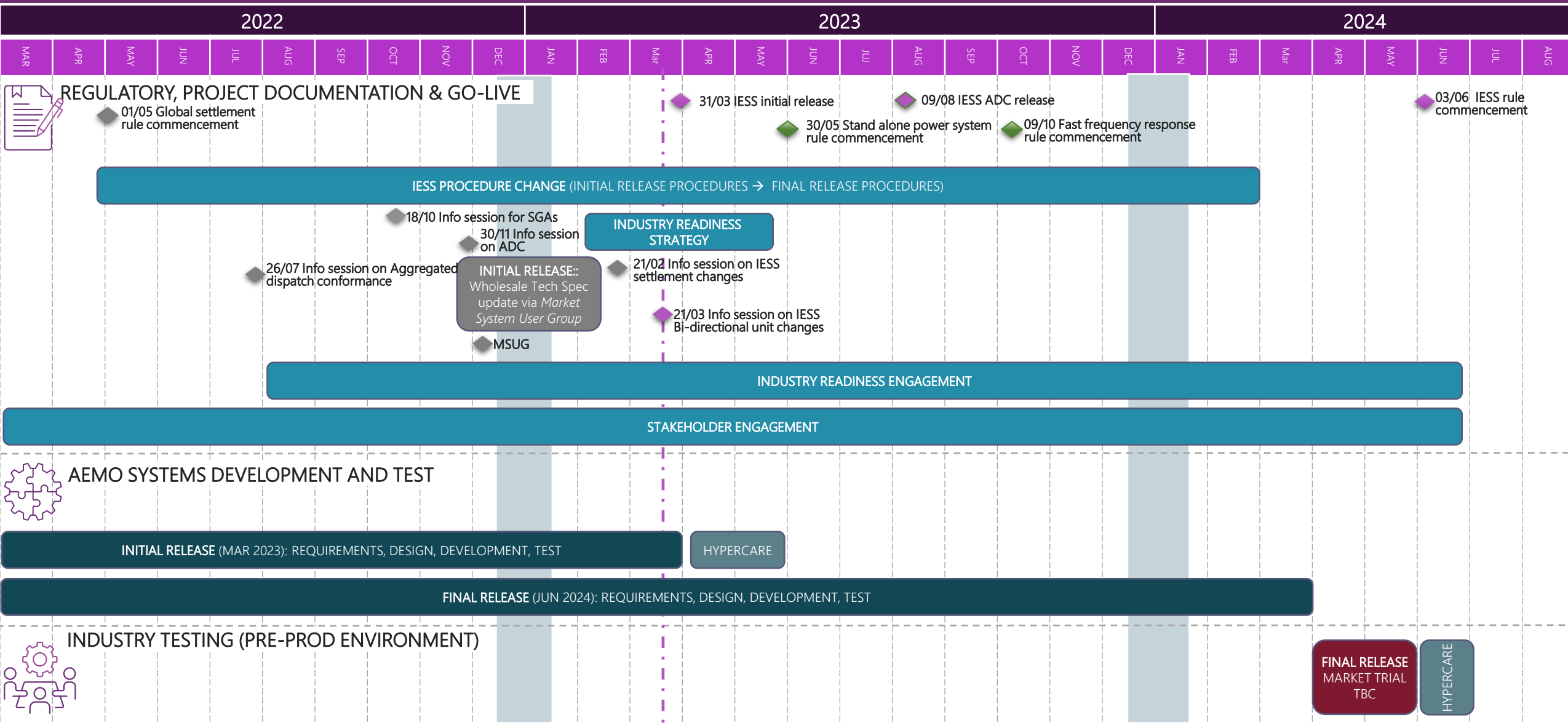


|             |                                       |
|-------------|---------------------------------------|
| <b>SGA</b>  | Small generation aggregator           |
| <b>FCAS</b> | Frequency control ancillary service/s |
| <b>IRP</b>  | Integrated resource provider          |
| <b>BDU</b>  | Bi-directional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

**REFERENCES**

- **AEMC:** [IESS rule change](#)
- **AEMC:** [Implementing IESS rule change](#)
- **AEMO:** [IESS High Level Design and Implementation Strawperson](#)
- **AEMO:** [Toolbox for SGAs providing FCAS](#)

# IESS – Indicative Industry Timeline




- IESS Confirmed
- IESS Indicative
- Concurrent initiatives
- Completed activities
- Summer holiday periods: Avoid industry IESS activities where possible
- Market trial: Details TBC

# IESS project update

## Since last EWCF meeting

- ✓ IESS settlements workshop held 21 Feb 2023
- ✓ AEMC initiated [Implementing IESS](#) rule change
  - Expedited rule change
  - **Consultation closes Thu 30 Mar**
- ✓ March 2023 go-live plan issued and release on track
  - Industry check-point for March 2023 release held at Feb [Implementation Forum](#)
- ✓ [Retail procedures consultation](#) opened for IESS (and other) changes
  - **First-round consultation closes Mon 03 Apr**
- ✓ Early industry readiness proposal discussed at [Implementation Forum](#)


## Key upcoming activities



**Tue 21 Mar:** Bidding/dispatch (BDU) information session



**Tue 26 Apr:** IESS readiness approach at Implementation Forum



**May TBC:** Dispatch procedure consultation opens for IESS updates relating to final release and outcomes of rule change

# IESS project contact



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



<https://aemo.com.au/initiatives/major-programs/integrating-energy-storage-systems-project>

# Fast Frequency Response

Carla Ziser



# Implementation Update

- Recap on the objective:
  - The AEMC has made a [final rule](#) to introduce two new services to help control frequency as the inertia of the power system reduces
    - The services will provide “very fast” contingency response, alongside the existing fast, slow and delayed services
    - They will also foster innovation in faster responding technologies, which become more important to support the energy transition
- The new very fast services will come into effect from 9 October 2023, at which time AEMO will implement a “requirement” for the services and FCAS providers will be enabled through dispatch processes

# Procedures Update

| PROCEDURE  | TIMING   |
|--|--|
| <p><b>Market Ancillary Services Specification (MASS)</b> – this sets out the definition of the very fast service, and the technical requirements for providers.</p>  | <p>The MASS consultation was finalised in October 2022.</p>  |
| <p><b>Constraint Formulation Guidelines (CFG)</b> – this sets out how AEMO will formulate FCAS requirements for the very fast service, as part of operating the dispatch, pre-dispatch and PASA processes.</p> | <p>Draft report was published on 9 March 2023. Participants are invited to make submissions on the draft report by 12 April 2023.</p>  |
| <p><b>Constraint Implementation Guidelines (CIG)</b> – update to set out how constraint equations are implemented for the very fast service.</p>   | <p>Submissions were due on 10 March 2023 – no submissions were received. Final version scheduled to be published on 20 March 2023.</p> |
| <p><b>Market Suspension Pricing Methodology (MSPM)</b> – minor update for very fast service.</p>   | <p>Final report published 2 March 2023.</p>  |

# Readiness for Market Start

- The Industry Readiness Approach for FFR was presented to the [AEMO | Implementation Forum](#) on 28 February 2023. This will form the basis of participant and AEMO readiness activities that will be reflected in the FFR Initiative schedule.
- The Service Commencement Plan for FFR will be published in early April. The two main purposes of this plan are:
  - How AEMO plans to engage with potential providers to complete registration in time for market start
  - To provide stakeholders with insight on AEMO's approach to implement the requirement for FFR

The following slides provide early insight into the structure and content of the Service Commencement Plan.



# Service commencement plan components

## 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

# Registration for very fast services

- Proposed that registrations formally open on 9 August
- Materials will be published in April to assist potential providers in assessing their capability for very fast FCAS
- AEMO wants to engage with providers to provisionally confirm their very fast maximum enablement before 9 August
- Selected providers will undergo a revision to their (6s) registration. AEMO will ensure these providers can apply to both revise their 6s registration and register for very fast service provision at the same time.
- On 9 October 2023, Very Fast FCAS registration and (where applicable) amended Fast FCAS registration become effective at the same time.

AEMO wants to engage early with potential providers of very fast FCAS

# Determining the requirement

- AEMO has developed an approach towards determining the quantity of very fast FCAS (R1 and L1) required to maintain frequency within the Frequency Operating Standard (FOS).
- This approach applies the FFR policy objectives, and the changes to the Market Ancillary Services Specification that were consulted on during 2022:
  - Supports a non-zero requirement for system normal conditions that is inertia-aware - that is, the presence of inertia will act to decrease the VF FCAS requirement.
  - Defines the 1s service as distinct from 6s service (and changing the definition of the 6s service accordingly)
- The requirement will be set dynamically based on RoCoF risk and determined as a ratio of the 6s (or fast) requirement as set out in the [AEMO | Constraints Implementation Guidelines](#)

# Implementing the requirement

- When the final rule was set AEMO flagged that there would be a progressive transition from existing arrangements to the new model, in a similar manner to the recent changes to contingency FCAS requirements due to the revision of the assumed value for load relief.
- The Service Commencement Plan steps out AEMO's approach for doing this.
- This will allow AEMO to monitor the transition to FFR, ensuring sufficient capacity is available to meet requirements

# Next steps

- AEMO are intending to publish the (draft) Service Commencement Plan on 6<sup>th</sup> April
- We will hold an ASTAG session on the 14<sup>th</sup> April to discuss the plan
- AEMO will release a final version of the Service Commencement Plan in late April
- Other materials to assist potential providers will also be released in April, enabling pre-assessment of very fast capability

AEMO encourages delegates with suitable FCAS subject matter expertise to attend the ASTAG session on 14<sup>th</sup> April 2023, where the Stakeholder Commencement Plan will be discussed.

# Frequency Performance Payments

Hugh Ridgway



# Implementation update and dates

- Submissions to the draft Procedure closed on 15th March. We are currently reviewing these submissions.
- FAQs and additional data is progressively being added to the consultation page.
- Final decision required by 8 June 2023.
- Go live 8 June 2025.
- Currently aiming to implement non-financial trial in December 2024.

# Workshop Summary

- As noted at the last EWCF, AEMO held an industry briefing on 14th February, covering the draft report and highlighting main issues, and a technical workshop on the 21st February covering the contribution factor calculation process in detail.
- A data publication workshop was subsequently held on the 28th February covering AEMO's initial thoughts on data publication and seeking further input from participants. AEMO's proposal for data publication and reporting was generally supported.



# Frequency Performance Payments (FPP) – Further information

- **AEMC rule**
  - <https://www.aemc.gov.au/rule-changes/primary-frequency-response-incentive-arrangements>
- **AEMO procedure consultation page**
  - <https://aemo.com.au/consultations/current-and-closed-consultations/frequency-contribution-factors-procedure>
- **FPP project page**
  - <https://aemo.com.au/initiatives/major-programs/frequency-performance-payments-project>
- **Email inbox**
  - [FPPconsultation@aemo.com.au](mailto:FPPconsultation@aemo.com.au)



# Enhancing Information in MT PASA

Chris Muffett



# Implementation Update

- Recap of the objective:
  - The AEMC has made a [final rule](#) to improve the quality and transparency of information that is collected and published about the future availability of generators as part of MT PASA
  - Generators will be required to provide additional unit state information and unit recall times, which AEMO will use and publish
- AEMO is implementing the rule through changes to procedures and systems, with the new arrangements commencing 9 October 2023

# Procedure Consultation

- AEMO is consulting on changes to give effect to the rule, which primarily relates to the following procedures:
  - Reliability Standard Implementation Guidelines
  - MT PASA Process Description
- First round of consultation, AEMO received 7 submissions with no substantive issues raised with AEMO's implementation of the rule
- Second round of consultation, AEMO received 7 submissions
- A final determination and procedures are being prepared, with a target date for publication of 28 April 2023.
  - More information is available at:
    - <https://www.aemo.com.au/consultations/current-and-closed-consultations/2022-reliability-forecasting-guidelines-and-methodology>

# Operational Security Mechanism

Chris Muffett



# Rule Update

- Recap on the objective:
  - The OSM is a market-based process run in the short-term operational timeframe to value, compensate, and schedule essential system services (ESS) to meet power system security requirements.
  - At a high-level, it involves:
    - Definition of security services in the form of security configurations and/or separate services.
    - Accreditation of providers of security.
    - Introduction of a new optimisation solver to be run close to real-time that determines a schedule for security provision.
    - Settlement for provision of security.
- The AEMC made a draft determination for the OSM on 21 September 2022, and expects a final determination to be published on 27 July 2023
- More information can be found on the AEMC's project page:
  - <https://www.aemc.gov.au/rule-changes/operational-security-mechanism>

# Next Steps

- AEMO is working with the AEMC and Reform Delivery Committee (RDC) to refine the timing around a potential go live for OSM (assuming a final rule is made to implement)
- AEMO has largely completed work to prototype the engine that will determine the OSM schedule; prototyping will inform regulatory discussions and implementation planning
- AEMO will be presenting the results of the prototyping to the AEMC's Technical Working Group
- The EWCF will be updated as the reform progresses

# 5. Other Reforms

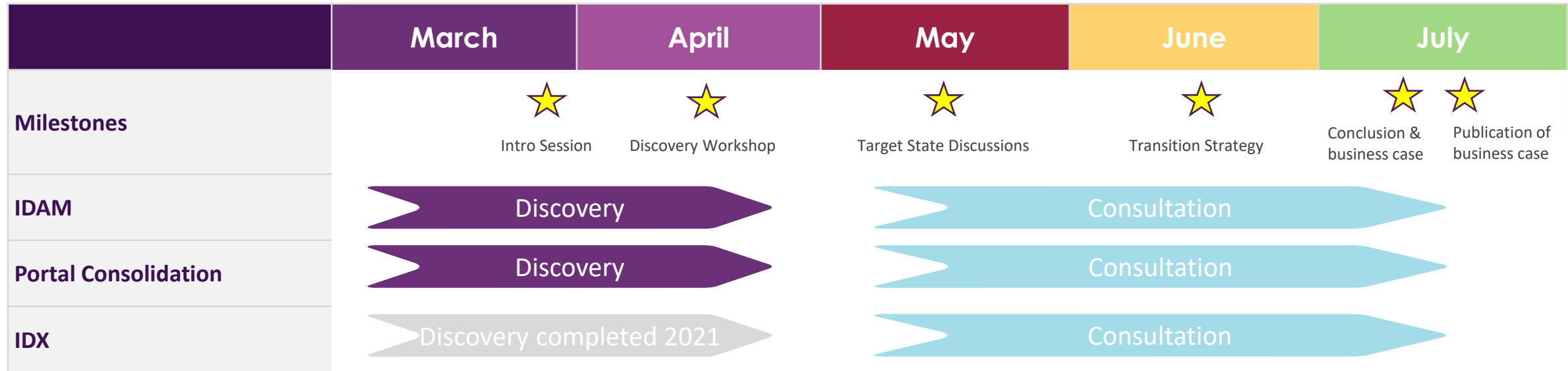


# Background – Strategic / Foundational initiatives

| 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/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.

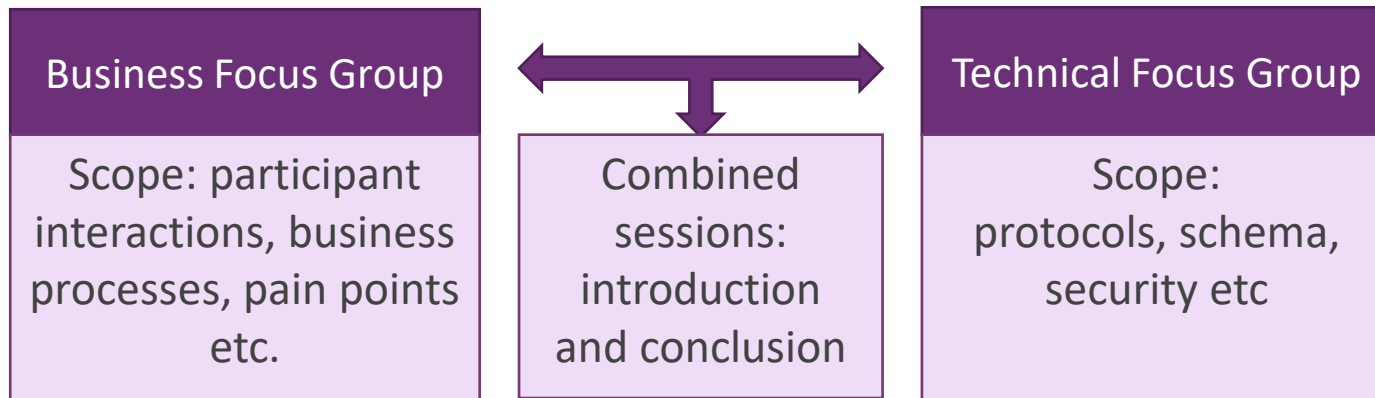
# Industry Consultation \*



| Session      | Introduction – IDX, IDAM & PC  | Discovery Workshops – IDAM and PC   | Target State Discussion   | Transition Strategy   | Conclusions and Business Case   |
|--------------|--|---|---|---|---|
| Brief 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     |                     |   |   |   |  |

\* Detailed workshop schedule available in Appendix B of this pack.

# 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 to inform participants of the scope and approach. Nominations to be sent to [NEM2025@aemo.com.au](mailto:NEM2025@aemo.com.au).

# 6. Procedures Consultation Roadmap

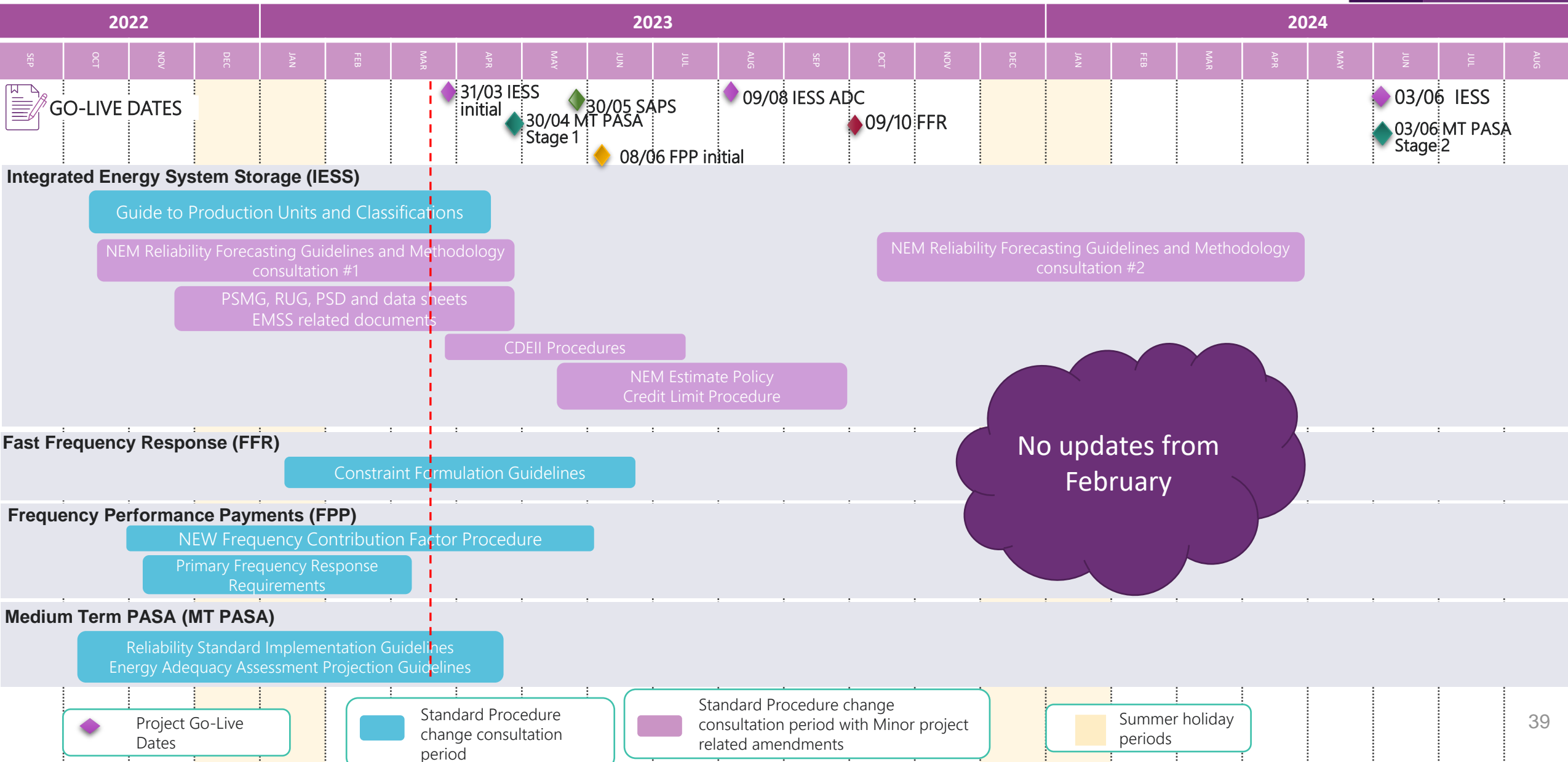
# Procedures Consultation Roadmap

- Update:
  - Current consultations for ‘in flight projects’ in motion
  - Ongoing “Library” of AEMO Procedures, Guides and documents

## Objective:

To help stakeholders see what AEMO is planning  
A tool to manage and plan timeframes for upcoming document changes  
Awareness of what is changing and who it impacts within organisations

# Indicative Procedure Change Timeline



# Document Changes Summary

| In Flight Project                       | Consultation   |   |
|---|--|---|
| Integrated Energy System Storage (IESS) | Guide to Registration Exemptions and Production Unit Classifications | Submission closed – 14 March 2023<br>Final report – 14 April 2023 |
|   | Retail Procedures consultation                                       | Submissions close – 03 April 2023                                 |
| Fast Frequency Response (FFR)           | Constraint Formulation Guidelines (CFG)                              | Draft report - 9 March 2023<br>Submissions close - 12 April 2023  |
|   | Constraint Implementation Guidelines (CIG)                           | Final report - 20 April 2023                                      |
|   | Market Suspension Pricing Methodology (MSPM)                         | Final report - 2 March 2023                                       |
| Frequency Performance Payments (FPP)    | New FCF Procedure  | Submission closed – 15 March 2023<br>Final Procedure – 8 May 2023 |
| Enhancing Information in MTPASA         | NEM Reliability Forecasting Guidelines and Methodology Consultation  | Final determination and reports – 28 April 2023                   |



# 7. Upcoming Engagements

# Upcoming Engagements

## MAR 2023

- MSPM: Final updated MSPM published (2 March)
- PCF: (8 March)
- CIG: Consultation closes (10 March)
- CFG: Second consultation period opens (9 March)
- FPP: Second consultation period closes [AEMO | Frequency Contribution Factors Procedure](#) (15 March)
- PFRR: Second consultation period closes (21 March)
- EWCF (21 March)
- ERCF: (27 March)
- Implementation Forum (28 March)
- RDC (30 March)
- Industry Testing Working Group (30 March)

## APR 2023

- PCF: (12 April)
- CFG: Second consultation period closes (12 April)
- EWCF: (18 April)
- CIG: Final Guidelines published (20 April)
- Industry Testing Working Group (27 April)
- Implementation Forum (26 April)
- ERCF: (24 April)
- PFRR: Final document published (28 April)

## Q2 2023

- All Stakeholder briefing / Information session on the NEM2025 Program (May –TBC)
- RDC Collaborative Workshop: (3 May)
- FPP: Final Frequency Contribution Factors Procedure published (8 May)
- PCF (10 May)
- EWCF: (16 May)
- RDC: (24 May)
- ERCF: (22 May)
- Industry Testing WG: (25 May)
- Implementation Forum (30 May)
- PCF: (14 June)
- EWCF: (20 June)
- ERCF: (26 June)
- CFG: Final Guidelines published (22 June)
- Implementation Forum (27 June)
- Industry Testing WG: (29 June)

### Glossary

FPP: Frequency Performance Payments  
 IESS: Integrating Energy Storage Systems  
 PCF: Program Consultative Forum  
 RDC: Reform Delivery Committee  
 EWCF: Electricity Wholesale Consultative Forum  
 ERCF: Electricity Retail Consultative Forum  
 CFG: Constraints Formulation Guidelines  
 PFRR: Primary Frequency Response Requirements  
 CIG: Constraints Implementation Guidelines  
 MSPM: Market Suspension Pricing Methodology

**Stakeholder enquiries and forum nominations may be sent to:**  
[NEM2025@aemo.com.au](mailto:NEM2025@aemo.com.au)

- 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).
- To learn more about AEMC calendar activities, please visit the [AEMC calendar](#).

# 8. General Questions & Other Business



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



[NEM2025 Electricity Wholesale Consultative Forum](#)



# Appendix A: Competition law meeting protocol and AEMO forum expectations

# 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.

# AEMO Forum and Meeting Expectations

This charter explains expectations regarding participation and behavior in the Australian Energy Market Operator (AEMO)'s stakeholder forums.

## Meeting Expectations

All participants will:

- Respect the diversity of the group.
- Speak one at a time – refrain from interrupting others.
- Share the oxygen – ensure that all attendees who wish to have an opportunity to speak are afforded a chance to do so.
- Maintain a respectful stance towards all participants.
- Listen to others' points of view and try to understand others' interests.
- Share information openly, promptly, and respectfully.
- If requested to do so, hold questions to the end of each presentation.
- Remain flexible and open-minded, and actively listen and participate in meetings.
- Abide by COVID-Safe workplace guidelines, if attending a meeting on AEMO's premises.

## Roles and Responsibilities

Forum stakeholders agree to:

- Be specific and fact-based in their feedback on a specific workstream or emerging issue;
- Review and provide feedback on papers and reports;
- Relay information to their colleagues or constituents after each meeting and gather information/feedback from their colleagues or constituents, as practicable, before each meeting;
- Maintain a focus on solutions or outcomes that benefit all energy consumers.

### AEMO agrees to:

- Provide technical expertise in a manner that is considerate of the audience and their level of expertise;
- Assist participants in understanding issues enough to represent their views;
- Provide all participants the opportunity to voice their views.

# Appendix B:

## Industry consultation schedule

- Identity Access Management (IDAM)
- Industry Data Exchange (IDX)
- Portal Consolidation (PC)

# Consultation workshop schedule (page 1/3)

| Dates   | Purpose   | Audience  | Session Outline   | Time [AEST] / Length  |
|---|---|---|---|---|
| <b>SESSION 1: Introduction to IDX, IDAM and PC</b>                    |   |   |   |   |
| 22 Mar  | Introduction – IDX, IDAM & PC                     | All interested stakeholders who nominated to Focus Groups (Nomination through NEM2025 Program forums) | <ul style="list-style-type: none"> <li>Context and objectives</li> <li>Introduce initiatives – IDX, IDAM &amp; PC</li> <li>Recap IDX pain points identified during Discovery in 2021</li> <li>Outline the Industry Consultation workshop plan</li> <li>Verify engagement approach</li> <li>Call for nominations for workshops (Sessions 2 – 5)</li> </ul>   | 11:30am– 12:30pm (1 hr.)  |
| <b>SESSION 2: Discovery Workshops – IDAM and Portal Consolidation</b> |   |   |   |   |
| 17 Apr  | Introduction: IDAM and PC                         | Technical and Business Focus Groups   | <ul style="list-style-type: none"> <li>Introduction and Objectives – IDAM and PC</li> <li>Present AEMO view of pain points from internal workshop</li> <li>Outline format of workshop (Business/Technical) and breakout sessions</li> </ul>   | 1:00 – 1:30pm (30 mins)   |
|   | <b>Technical</b> Discovery Workshops: IDAM and PC | Technical Focus Group – IDAM<br>Technical Focus Group - PC<br><br>Hybrid session (online & in-person) | <ul style="list-style-type: none"> <li>Technical streams to workshop industry pain points</li> <li>Technical streams to identify industry benefits</li> <li>Cyber considerations in the context of IDAM and PC</li> </ul>   | IDAM Focus Group<br>1:30 – 3:00pm (1.5 hrs.)<br><br>- 15 min break -<br><br>PC Focus Group<br>3:15 – 4:15pm (1 hr.) |
|   | <b>Business</b> Discovery Workshops: IDAM and PC  | Business Focus Group – IDAM<br>Business Focus Group - PC<br><br>Hybrid session (online & in-person)   | <ul style="list-style-type: none"> <li>Business streams to workshop industry pain points</li> <li>Business streams to identify industry benefits</li> <li>Cyber considerations in the context of IDAM and PC</li> </ul>   | IDAM Focus Group<br>1:30 – 3:00pm (1.5 hrs.)<br><br>- 15 min break -<br><br>PC Focus Group<br>3:15 – 4:15pm (1 hr.) |
|   | Workshop Close                                    | Technical and Business Focus Groups   | <ul style="list-style-type: none"> <li>Summarise and close</li> <li>Communicate survey details and invite inputs from participants by due date</li> </ul> <p>Post-workshop actions:<br/>                     Issue IDAM &amp; PC survey – <b>17 Apr</b><br/>                     IDAM &amp; PC survey results due – <b>26 Apr</b><br/>                     Issue IDAM &amp; PC survey final pack – <b>3 May</b></p> | 4:15 – 4:30pm (15 mins)   |



# Workshop schedule (page 2/3)

| Dates  | Purpose                            | Audience                               | Session Outline  | Time [AEST] / Length       |
|--|------------------------------------|--|--|----------------------------|
| <b>SESSION 3A: Target State Proposal for Technical Focus Groups</b>  |                                    |  |  |                            |
| 15 May   | Introduction                       | Technical Focus Groups – IDX, IDAM, PC | <ul style="list-style-type: none"> <li>Introduction</li> <li>Overview of session structure for IDX, IDAM and PC</li> </ul>   | 10:00 - 10:15am (15 mins)  |
|  | Target State Proposal for IDX      | Technical Focus Group - IDX            | <ul style="list-style-type: none"> <li>Concept walkthrough</li> <li>Recap on Discovery workshop outcomes</li> <li>Proposed Target State models</li> <li>Feedback</li> </ul>  | 10:15am – 12:15pm (2 hrs.) |
|  | <b>LUNCH 12:15 – 1:30PM</b>        |  |  |                            |
|  | Target State Proposal for IDAM     | Technical Focus Group – IDAM           | Focus: Authorisation, Authentication, Entitlement Management <ul style="list-style-type: none"> <li>Concept walkthrough</li> <li>Recap on Discovery workshop outcomes</li> <li>Proposed Target State models</li> <li>Feedback</li> </ul> | 1:30 – 3:00pm (1.5 hrs.)   |
|  | <b>AFTERNOON TEA 3:00 – 3:15PM</b> |  |  |                            |
|  | Target State Proposal for PC       | Technical Focus Group - PC             | <ul style="list-style-type: none"> <li>Concept walkthrough</li> <li>Recap on Discovery workshop outcomes</li> <li>Proposed Target State models</li> <li>Feedback</li> </ul>  | 3:15 – 4:15pm (1 hr.)      |
|  | Session Close                      | Technical Focus Groups – IDX, IDAM, PC | <ul style="list-style-type: none"> <li>Summarise and close</li> </ul>  | 4:15 – 4:30pm (15 mins)    |
| <b>SESSION 3B: Target State Discussion for Business Focus Groups</b> |                                    |  |  |                            |
| 22 May   | Introduction                       | Business Focus Groups – IDX, IDAM, PC  | <ul style="list-style-type: none"> <li>Introduction</li> <li>Overview of session structure for IDX, IDAM and PC</li> </ul>   | 1:00 – 1:15pm (15 mins)    |
|  | Target State Discussion for IDX    | Business Focus Group - IDX             | <ul style="list-style-type: none"> <li>Concept walkthrough</li> <li>Recap on Discovery workshop outcomes</li> <li>Sample use cases – B2B, B2M, non-NEM</li> <li>Feedback</li> </ul>  | 1:15 – 2:30pm (1.25 hrs.)  |
|  | <b>COFFEE BREAK 2:30 – 2:45PM</b>  |  |  |                            |
|  | Target State Discussion for IDAM   | Business Focus Group – IDAM            | <ul style="list-style-type: none"> <li>Concept walkthrough</li> <li>Recap on Discovery workshop outcomes</li> <li>Sample use cases – B2B, B2M, non-NEM</li> <li>Feedback</li> </ul>  | 2:45 – 3:45pm (1 hr.)      |
|  | Target State Discussion for PC     | Business Focus Group – PC              | <ul style="list-style-type: none"> <li>Concept walkthrough</li> <li>Recap on Discovery workshop outcomes</li> <li>Sample use cases – B2B, B2M, non-NEM</li> <li>Feedback</li> </ul>  | 3:45 – 4:45pm (1 hr.)      |
|  | Session Close                      | Business Focus Groups – IDX, IDAM, PC  | <ul style="list-style-type: none"> <li>Summarise and close</li> </ul>  | 4:45 – 5:00pm (15 mins)    |

# Workshop schedule (page 3/3)

| Dates   | Purpose  | Audience  | Session Outline   | Time [AEST] / Length          |
|---|--|---|---|-------------------------------|
| <b>SESSION 4A: Transition Strategy for Technical Focus Groups</b> |  |   |   |                               |
| 19 Jun  | Introduction   | Technical Focus Groups – IDX, IDAM, PC                                | <ul style="list-style-type: none"> <li>Introduction and objectives</li> <li>Overview of Transition Strategy for IDX, IDAM and PC</li> </ul>   | 10:00 – 10:15am (15 mins)     |
|   | Transition Strategy, Impacts & Benefits – IDX and IDAM | Technical Focus Group – IDX<br>Technical Focus Group – IDAM           | <b>IDX:</b> <ul style="list-style-type: none"> <li>Enabling progressive transition</li> <li>N -1 discussion</li> <li>Sunset timeframe discussion</li> <li>Propose principles for utilization</li> </ul> <b>IDAM:</b> <ul style="list-style-type: none"> <li>Aligned with IDX &amp; PC take up</li> <li>Sunset timeframes</li> </ul> Impacts & Benefits of IDX and IDAM initiatives – Technical view | 10:15am – 12:30pm (2.25 hrs.) |
|   | <b>LUNCH 12:30 – 1:30PM</b>                            |   |   |                               |
|   | Transition Strategy, Impacts & Benefits - PC           | Technical Focus Group – PC  | <b>PC:</b> <ul style="list-style-type: none"> <li>Align to initiatives</li> <li>Sunset timeframes</li> </ul> Impacts & Benefits of PC initiative – Technical view   | 1:30 – 2:45pm (1.25 hrs.)     |
| Session Close   | Technical Focus Groups – IDX, IDAM, PC                 | <ul style="list-style-type: none"> <li>Summarise and close</li> </ul> | 2:45 – 3:00pm (15 mins)   |                               |
| <b>SESSION 4B: Transition Roadmap for Business Focus Groups</b>   |  |   |   |                               |
| 26 Jun  | Introduction   | Business Focus Groups – IDX, IDAM, PC                                 | <ul style="list-style-type: none"> <li>Introduction and objectives</li> <li>Walkthrough of the principles for NEM2025</li> <li>Overview of the IDX, IDAM and PC Transition Roadmap</li> </ul>   | 1:00 – 1:30 (30 mins)         |
|   | Transition Roadmap, Impacts & Benefits – IDX and IDAM  | Business Focus Group – IDX<br>Business Focus Group – IDAM             | <ul style="list-style-type: none"> <li>Present Roadmap for IDX and IDAM aligned to NEM2025</li> <li>Present Impacts and Benefits – Business view</li> </ul>   | 1:30 – 3:30pm (2 hrs.)        |
| <b>COFFEE BREAK 3:30 – 3:45PM</b>                                 |  |   |   |                               |
|   | Transition Roadmap, Impacts & Benefits – PC            | Business Focus Group – PC   | <ul style="list-style-type: none"> <li>Present Roadmap for PC aligned to NEM2025</li> <li>Present Impacts and Benefits – Business view</li> </ul>   | 3:45 – 4:45pm (1 hr.)         |
|   | Session Close  | Business Focus Groups – IDX, IDAM, PC                                 | <ul style="list-style-type: none"> <li>Summarise and close</li> </ul>   | 4:45 – 5:00pm (15 mins)       |
| <b>SESSION 5: Conclusions and Business Case</b>                   |  |   |   |                               |
| 10 Jul  | Conclusions & Business Case                            | Business Focus Groups – IDX, IDAM and PC                              | <ul style="list-style-type: none"> <li>Introduction and re-cap of Sessions 3 and 4</li> <li>Present key options – Incremental upgrade vs Early Transition</li> <li>Recommendations and considerations</li> </ul>  | 1:00 – 3:00 pm (2 hrs.)       |
| 14 Jul  | Publication of Business Case                           | All stakeholders, including Reform Delivery Committee                 | Submissions by participant stakeholders due 28 July   | NA                            |



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