

Electricity Wholesale Consultative Forum (EWCF)

Meeting #6
20 June 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	Welcome	Chris Muffett (AEMO)
2	1:05pm – 1:10pm	Actions & Feedback from Previous Meeting	Chris Muffett (AEMO)
3	1:10pm – 1:30pm	Reform Delivery Committee Update	Lance Brooks (AEMO)
4	1:30pm – 2:15pm	In-flight Reform Update: <ul style="list-style-type: none"> • Integrated Energy Storage System (IESS) • Fast Frequency Response (FFR) • Frequency Performance Payments (FPP) • Enhancing information in MT PASA • Operational Security Mechanism (OSM) 	AEMO reform leads: <ul style="list-style-type: none"> • Nicole Nsair • Carla Ziser • Oliver Derum • Chris Muffett • Chris Muffett
5	2:15pm – 2:25pm	Other Reforms <ul style="list-style-type: none"> • IDAM, IDX & PC 	Ulrika Lindholm (AEMO)
6	2.25pm – 2:35pm	Consultation Update <ul style="list-style-type: none"> • Automation of MII changes • Operational Forecasting Bid Max Avail changes 	Chris Muffett (AEMO)
7	2:35pm – 2:45pm	Procedures Consultation Roadmap	Nicole Nsair (AEMO)
8	2.45pm – 2:50pm	Upcoming Engagements	Paul Johnson (AEMO)
9	2:50pm – 3:00pm	General Questions and Other Business <ul style="list-style-type: none"> • Dispatch and reserve condition requests 	Chris Muffett (AEMO) Henry Gorniak (CS Energy), Ron Logan (Shell)

Appendix A: Competition law meeting protocol and AEMO forum expectations

Appendix B: Indicative 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

(Item = Meeting # – Agenda # – Reference)

Item	Topic	Action	Responsible	Notes
5.7.0.1	Procedures Consultation Roadmap	AEMO to consider splitting out formal consultation and identifying documents that are only seeking feedback (non-formal consultation) and placing on AEMO's website.	AEMO	Currently being considered

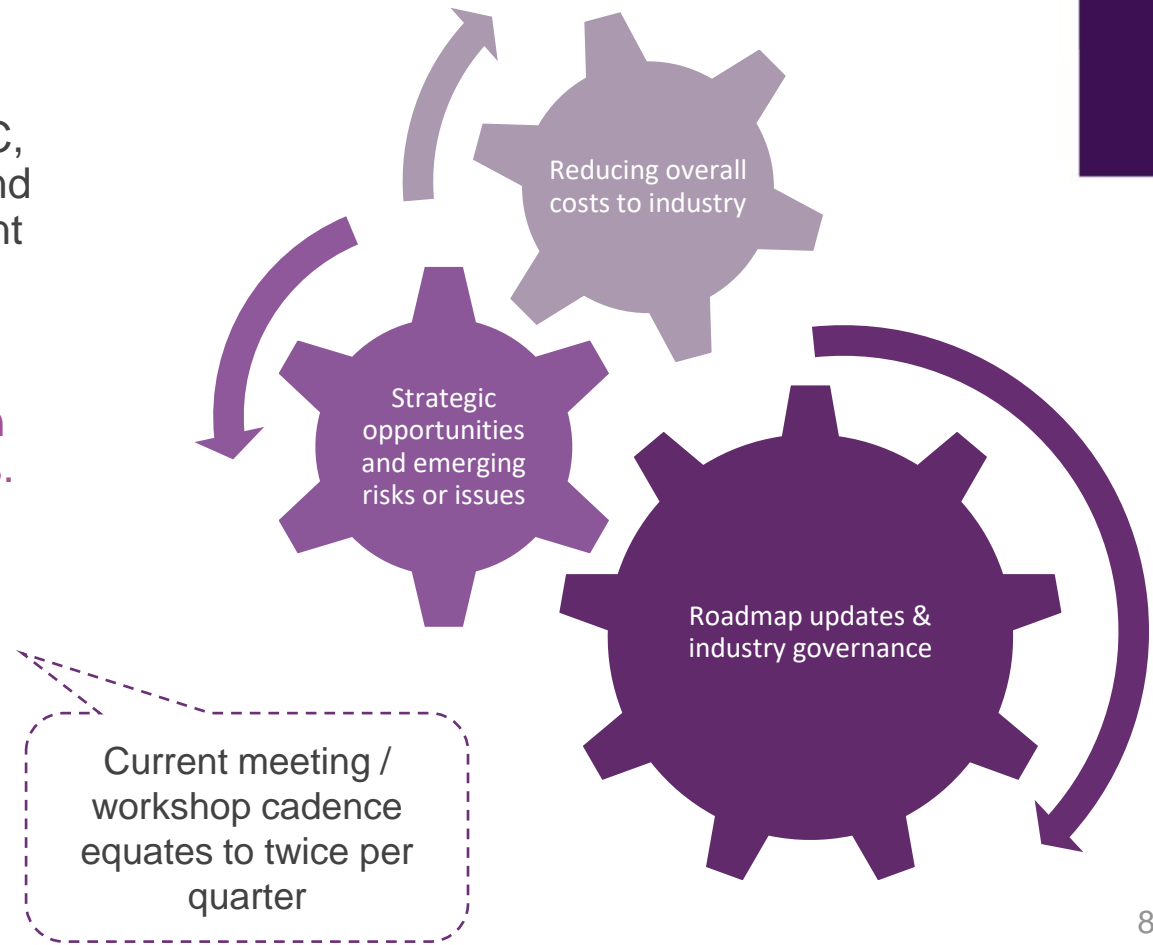
The latest meeting minutes and materials are available on the [NEM Reform Electricity Wholesale Consultative Forum](#) webpage.

3. Reform Delivery Committee

Background & Context

First RDC meeting held
November 2021

- AEMO established the RDC with the support of the AEMC and the AER.
- The RDC consists of nominees from the market bodies (AEMC, AER, ESB), market participants, consumer representatives, and representatives of the renewable energy, demand management and energy efficiency industry sectors.
- The RDC is chaired by AEMO.
- **Its purpose is to facilitate deep and effective collaboration across the industry to develop a Roadmap for the reforms.**
- The RDC will continue to play an important role to:
 - Provide input on opportunities to reduce overall cost to AEMO and industry;
 - Identify risks and share emerging issues that may impact on the implementation of reforms and require changes to the Roadmap; and
 - Review and update the baseline Roadmap as needed.



NEM Reform Implementation Roadmap

AEMO published v.2 of the Roadmap and supporting artifacts 27 April 2023

The **NEM Reform Implementation Roadmap** establishes a basis upon which AEMO, and stakeholders may navigate the breadth of reforms (including ESB Post-2025 reforms) over the coming few years, de-risking delivery, and informing implementation timing.

It will enable careful planning for the delivery of reforms, avoid unnecessary or duplicative costs, and identify where strategic investments can be made to deliver efficient outcomes for AEMO, market participants and consumers.



Why is it required?

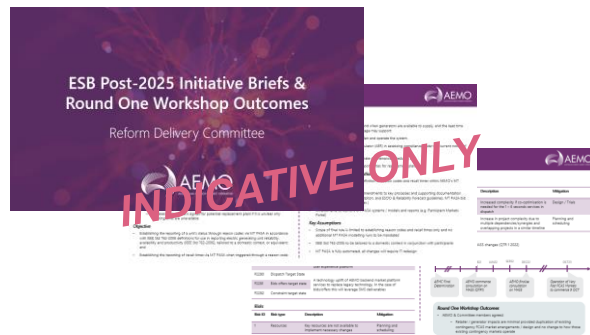
- The implementation program to deliver the energy transition and other reforms is significant, let's maximise the chances of industry-wide success and efficient delivery
 - Integrated program rather than piecemeal and fragmented
 - Drive down implementation costs
 - Supports implementation resource planning and mobilisation for all implementation stakeholders
- Transparency on implementation
- Informs implementation timing decisions by market bodies



Roadmap Objectives

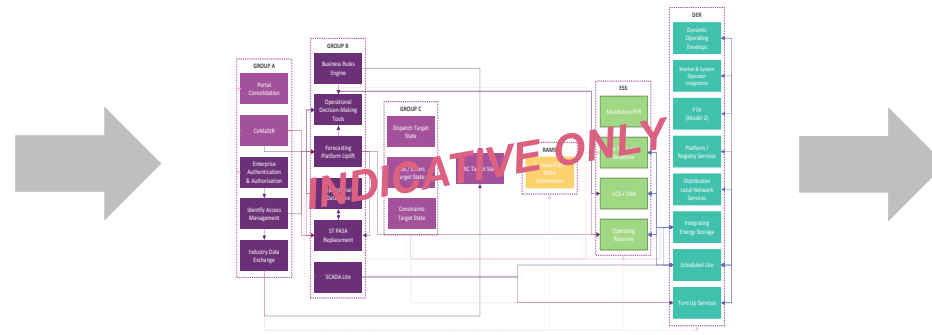
- The objectives of the NEM Reform Implementation Roadmap is to set out a program that:
 - Implements reforms in a timely and efficient manner;
 - Co-ordinates regulatory and IT change;
 - Aims to remove costs associated with implementation of individual initiatives; and
 - Provides transparency to stakeholders on the implementation program

In developing the NEM Reform Implementation Roadmap a comprehensive and collaborative process has been undertaken in conjunction with the RDC



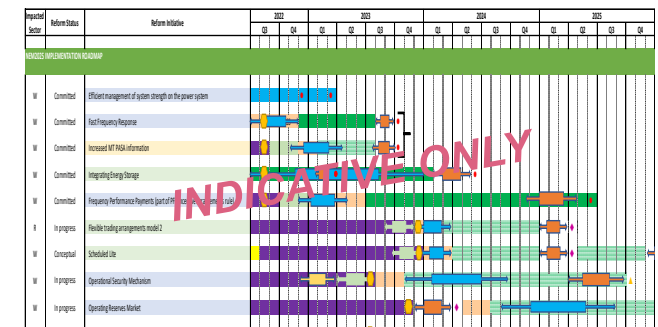
Reference Material

- Outline of individual initiatives including problem statement, objectives, scope, assumptions, dependencies and schedule



Relationship Mapping

- Mapping of key relationships including for example: Functional, Deadline, Sequencing (Design or Implementation / Operation), Policy, Trials, and Technology



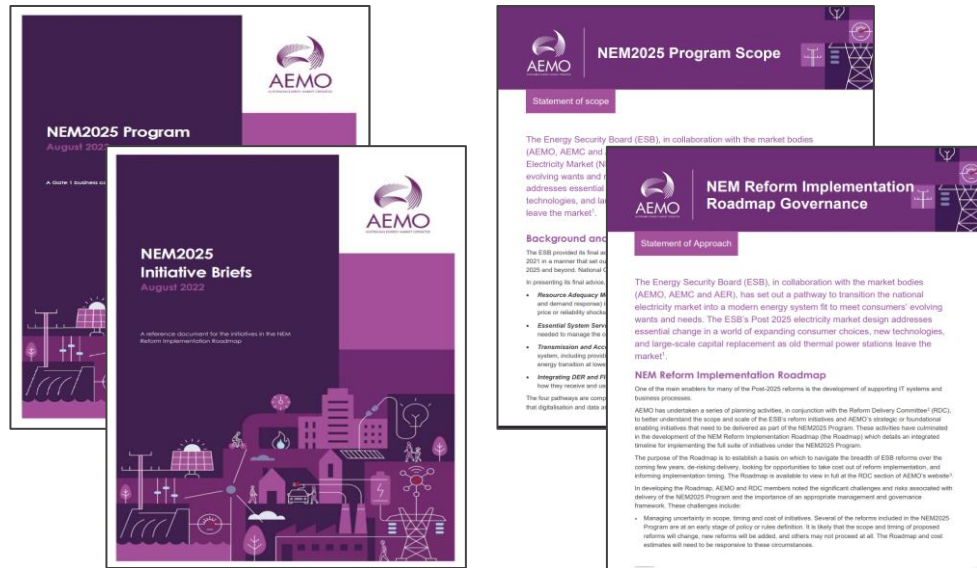
Roadmap Development

- Identification of project sequencing, bundling, timing including key milestones and alternative pathways

Supporting material developed in conjunction with the Roadmap has been made publicly available [here](#).

Uncertainty, challenges and risks require an appropriate governance framework

Roadmap Supporting Artifacts



Roadmap Governance

The Roadmap commits to delivery of mandatory and no regrets initiatives in a timely way.

It also sets a pathway and progressive commitment process for delivery of those initiatives with greater uncertainty in policy, design, scope or timing. This process comprises:

- A **Change Management Process** to manage and advise on impacts of new initiatives being added to the reform scope or changes in scope/timing of existing proposed initiatives,
- A **Stage Gate Process** providing for greater certainty of proceeding, funding approval discipline, transparency and management, including development of a cost/benefit analysis and industry consultation for AEMO strategic / foundation initiatives, and
- A progressive **Investment Commitment Process** and draw down of funds that will be informed by regulatory determinations and the stage gate approach.

		PARTICIPANT TYPE														FUNCTIONS											
		Consumers - non participants	Consumers - wholesale participants	Demand Response Service Providers (DRSPs)	Developers - Renewable Storage	Distribution Network Service Providers (DNSPs)	Generators - Renewable	Generators - Scheduled	Manufacturers - renew able/batteries	Mining, Coordinators	Metering Data Providers	Meter providers and manufacturers	Realisators	Retailers	Small Generator Aggregators (SGAs)	Trader	Transmission Network Service Providers (TNSPs)	Lead (low-urgency/initiative)	Binding/Data Provision	Trading	Settlement	Data Collection & Storage	Billing (Network Billing)	Network Management	Customer Billing System	Meters/DEB Communications	Demand Forecasting
Resource Adequacy Mechanism	Increased MT PASA Information	N	N																								
	Fast Frequency Response	N	Y																								
	Mandatory Primary Frequency Response	N	Y				Y	Y	N	N	N	N															
	Operating Reserve Market	N	N				N	Y	N	N	N	N															
Essential System Services	System Strength (Planning)*	N	Y				Y	Y	N	N	N	N															

Standing Agenda

RDC advice ensures reforms are:

- implemented in a timely and efficient manner and at least whole-of-system cost;
- coordinated in terms of regulatory and IT change; and
- transparent to stakeholders involved across the implementation program.

Agenda	Example Topics Covered (March 2023 & May 2023)
Change management updates	<ul style="list-style-type: none">• <i>NEM Reform Implementation Roadmap + Supporting Briefs</i> – Final update prior to Publication• <i>FTA Model 2</i> – Update from AEMC on consultation timeline / next steps• <i>Operational Security Mechanism</i> - Update from AEMC on consultation timeline and• <i>Capacity investment scheme</i> – Update post Commonwealth budget• <i>Enhanced Information, Congestion Relief Market & Priority Access Model</i> – Update current ESB consultation process and scope
Taking costs out of industry	<ul style="list-style-type: none">• <i>Blueprint Assessment</i> – Developed as an input into the next iteration of the Roadmap identifying opportunities to bundle, sequence and prioritise initiatives• Proposed consultation / co-creation approach to engage with industry
Stage gate updates	<ul style="list-style-type: none">• <i>Updates to timing and composition of stage gates reflecting the progress of initiatives within the scope of the NEM Reform Program</i>
Progression of Foundational & Strategic initiatives	<ul style="list-style-type: none">• <i>IDAM, IDX and PC</i> – Industry consultation update (refer to Section 5 of this pack)
Other business	<ul style="list-style-type: none">• <i>Operational Security Mechanism</i> - Informed go-live assessment

To learn more

- Committee meeting materials and NEM Reform Implementation Roadmap are available at AEMO's website:
 - <https://aemo.com.au/en/consultations/industry-forums-and-working-groups/list-of-industry-forums-and-working-groups/reform-delivery-committee>
 - <https://aemo.com.au/initiatives/major-programs/nem-reform-implementation-roadmap>

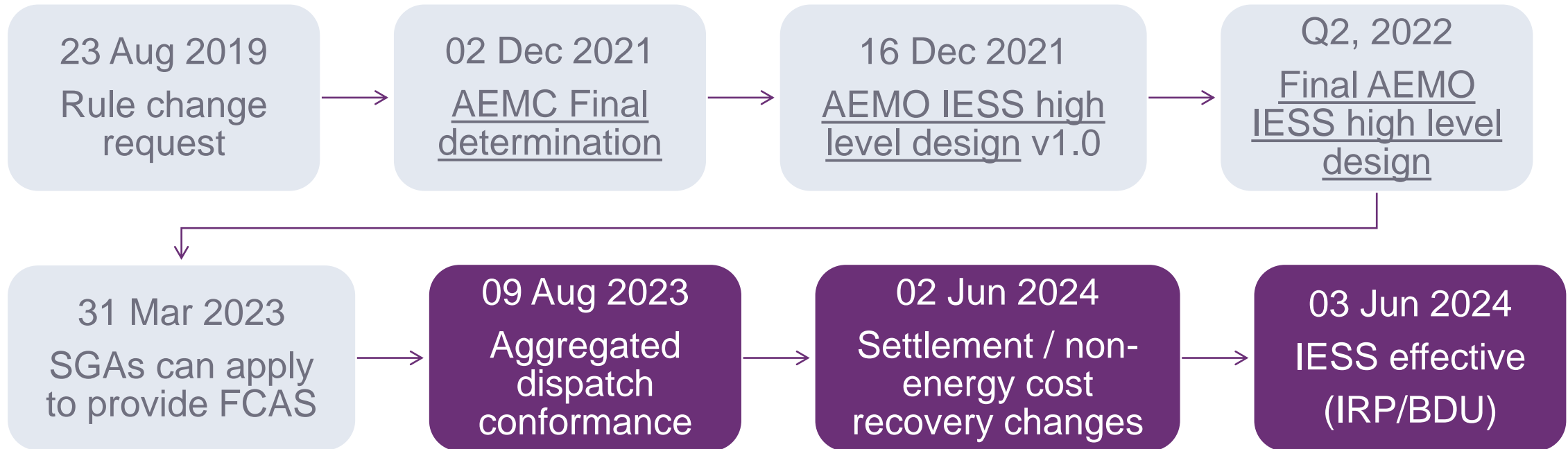
4. In-flight Reform Update



Integrating Energy Storage Systems (IESS)

Nicole Nsair

IESS: High-level Timeline

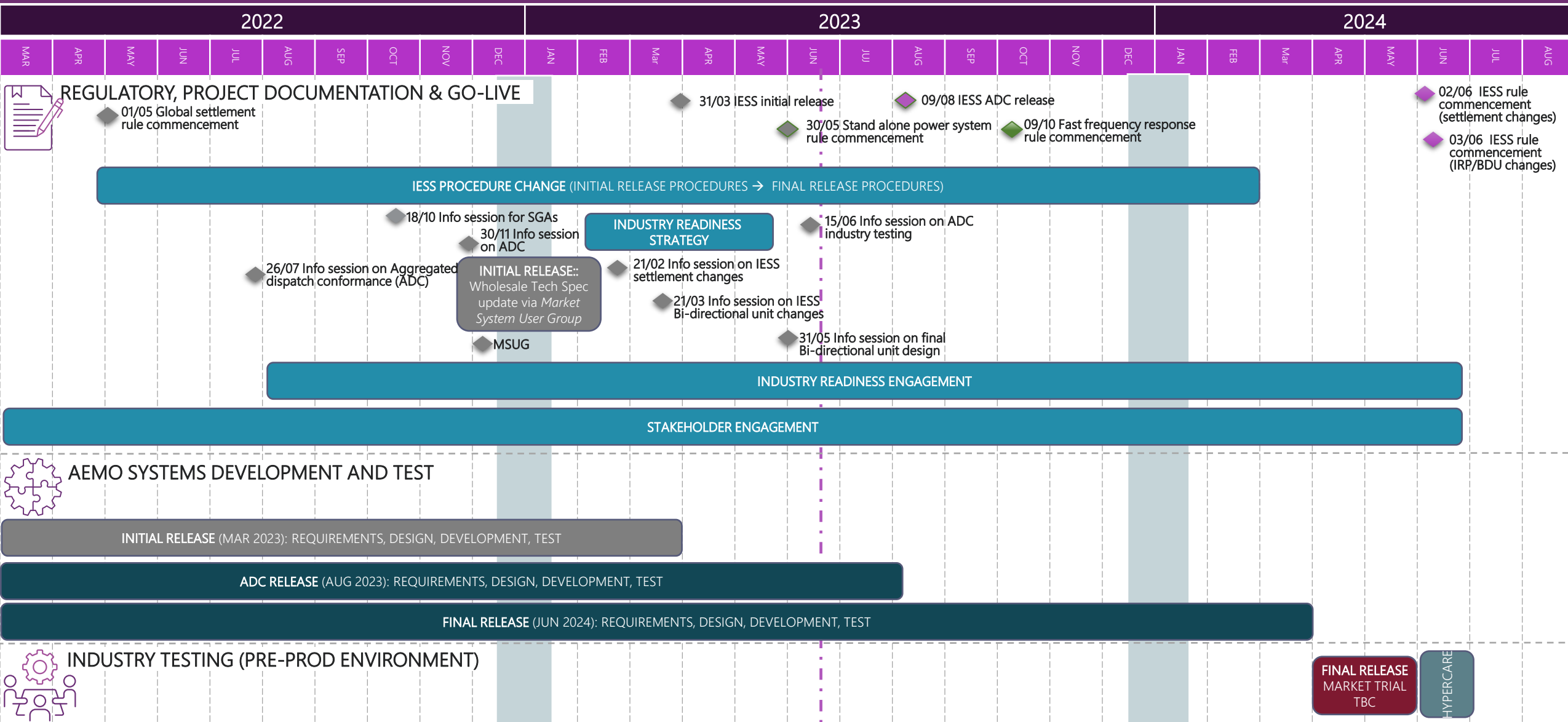


SGA	Small generation aggregator
FCAS	Frequency control ancillary service/s
IRP	Integrated resource provider
BDU	Bi-directional unit

REFERENCES

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

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

I ESS project update

Since last EWCF meeting

✓ May 2023	Information sessions for connecting NSPs on how to assess and manage applications for Aggregated Dispatch Conformance
✓ Tue 30 May	Feedback on settlement changes at Implementation Forum
✓ Wed 31 May	Information session on final Bidirectional Unit implementation model.
✓ Thu 01 Jun	Published final Guide to Registration Exemptions and Production Unit Classifications
✓ Fri 09 Jun	Draft retail procedures with IESS updates published for consultation

Key upcoming activities



27 Jun: Implementation Forum

Industry readiness planning



Mon 10 Jul: Industry testing for aggregated dispatch conformance starts



Q3 2023: Consultation opens for [I ESS procedure updates](#) for prudentials & dispatch.

IESS project contact



liess@aemo.com.au



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

Fast Frequency Response

Carla Ziser

Refresher on the FFR Rule

- 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>Market Ancillary Services Specification (MASS) – 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. Minor consultation on revision of Tasmanian settings for Very Fast FCAS underway, submissions due 23 June 2023.</p>
<p>Constraint Formulation Guidelines (CFG) – 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>Submissions on the draft report closed 12 April 2023. Final version of CFG scheduled to be published 22 June 2023.</p>
<p>Constraint Implementation Guidelines (CIG) – update to set out how constraint equations are implemented for the very fast service.</p>	<p>Final version published on 20 April 2023.</p>
<p>Market Suspension Pricing Methodology (MSPM) – minor update for very fast service.</p>	<p>Final report published on 2 March 2023.</p>

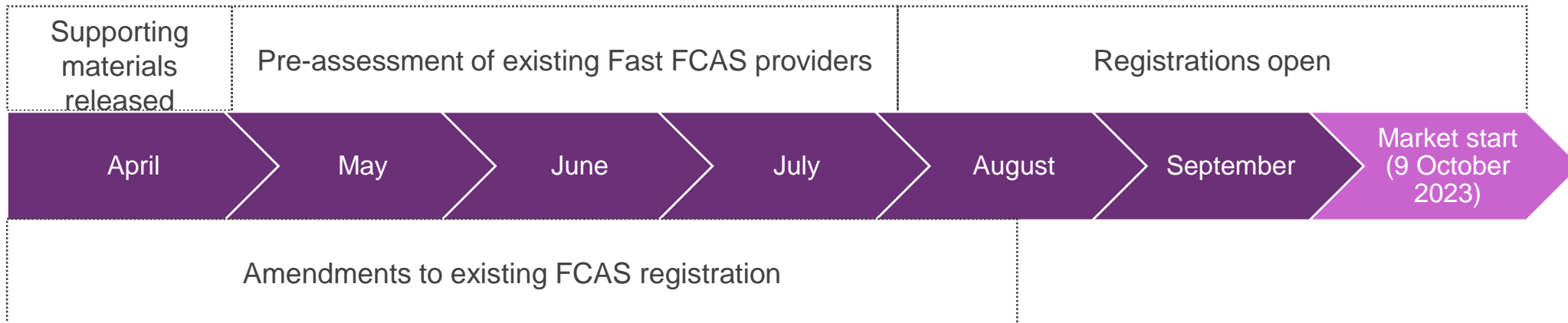
Participant readiness activities

AEMO is offering pre-registration assessments

- AEMO is engaging with existing Fast FCAS providers who wish to provisionally confirm their Very Fast FCAS maximum capacity, prior to the formal registration application being submitted.

AEMO is accepting applications to amend existing FCAS registrations

- Revision required to select FCAS facilities' maximum capacity in other contingency FCAS markets to remain compliant with MASS v8 (effective 9 October 2023).
- Participants must submit 3.1 notification form by 26 August 2023.



Available information

Participating in VF FCAS

- [Service Commencement Plan](#)
- [Initiative FAQs](#)
- [EMMS technical specification – August 2023](#)
- [Initiate technical assessment](#)

Amending existing FCAS registration

- [Service Commencement Plan](#)
- [Technical FAQs](#)
- [MASS consultation \(October 2022\)](#)

Understanding settlement changes

- [Initiative FAQs](#)
- [EMMS technical specification – August 2023](#)

Understanding industry testing

- [Industry test approach](#)



ffrconsultation@aemo.com.au



[AEMO | Fast Frequency Response](#)

Frequency Performance Payments

Oliver Derum

Final Frequency Contribution Factors Procedure (FCFP)

KEY ISSUE	FINAL FCFP PROVISION
Reference trajectories	Consistent with the Draft FCFP, target-to-target trajectories will be used.
Measurement of Frequency	Frequency to be measured regionally, not sub-regionally. Following feedback, multiple possible sources of measurement per region, to provide redundancy.
Frequency Measure	Exponential moving average, consistent with Draft FCFP. Following feedback, Final FCFP excludes 4-sec intervals where frequency ‘crosses’ 50Hz.
Default Contribution Factors (DCF)	Following feedback, length of historical performance period used to calculate contribution factors (CFs) reduced from 28 to 7 days. If data not available within 30 mins, DCF applies.
Requirement for Corrective Response (RCR) cap	Following feedback, this clause has been deleted. AEMO accepts that a cap on the MW contributed to a frequency response is not required.
Usage	Method for splitting cost of regulation FCAS between CFs and DCFs is as proposed in Draft FCFP
ADC	Consistent with Draft FCFP, a single CF will be calculated for units participating in Aggregated Dispatch Conformance.

Participant impact and timeline focus group – 30 June

- AEMO is convening this session as part of efforts to achieve a shared understanding of the participant impacts of the introduction of FPP.
- The focus group and subsequent feedback will cover:
 - the impacts of the changes
 - reasonable timings for industry development and testing, including the provision of draft tech specs and other necessary material to participants by AEMO.
- AEMO will present our initial views of these topics for discussion. Following the event, written feedback from participants will be invited for two weeks.
- While the new FPP arrangements come into effect on 8 June 2025, participants are expected to have system changes in production at the start of the six-month non-financial operation period (market trial), from Dec 2024.

FPP – Further information

- **Frequency Contribution Factors page (contains Procedure and Tuning Parameters)**
 - <https://aemo.com.au/energy-systems/electricity/national-electricity-market-nem/system-operations/ancillary-services/frequency-contribution-factors>
- **AEMO FCFP 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>
- **AEMC rule**
 - <https://www.aemc.gov.au/rule-changes/primary-frequency-response-incentive-arrangements>
- **Email inbox**
 - 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 was finalised on 24 April:
<https://www.aemo.com.au/consultations/current-and-closed-consultations/2022-reliability-forecasting-guidelines-and-methodology>

Operational Security Mechanism

Chris Muffett

Operational Security Mechanism

- The AEMC has proposed a shift in the focus of its OSM rule change to identify more immediate solutions that address the need for power system security signalling their intention to investigate options to streamline and simplify existing security services frameworks
- The AEMC has indicated that investigation will be carried out in relation to system strength, inertia and the Network Support and Control Ancillary Services (NSCAS) frameworks – including how contracts for such ancillary services are scheduled in real-time and improvements to the directions process.
- Further, the AEMC indicated key concerns identified in the initial OSM rule change such as putting in place frameworks to procure ESS to support the NEM and reduce the need for the AEMO to use ‘directions’ and supporting new investment in ‘plant’ technologies that provide services are to be covered in its upcoming directions paper.
- Details of the AEMC’s proposed forward direction are available [here](#)

This represents a significant change in scope of the OSM initiative from that assumed under the Roadmap and supporting materials. AEMO will continue to monitor the progress of the rule change and work with the RDC to update the Roadmap in due course in accordance with the Change Management Process

5. Other Reforms

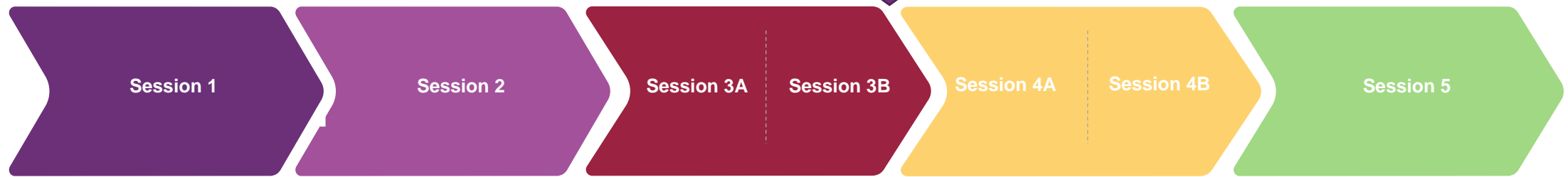
IDAM, IDX and PC









Ulrika Lindholm

Industry Consultation – update

- Discovery phase and Target state workshops completed with supportive and constructive interactions to date
- Interactions suggests:
 - the nature of content is more technical than expected
 - participants are looking to understand detailed implications before a transition has been discussed
- AEMO team is working through additional feedback, especially on IDX, to ensure the focus group aligns on the target state prior to moving on to the next phase of the consultation.

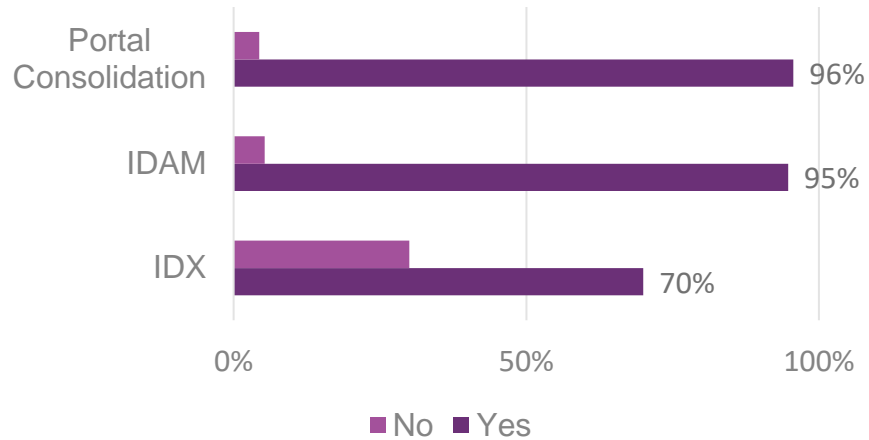
We are here



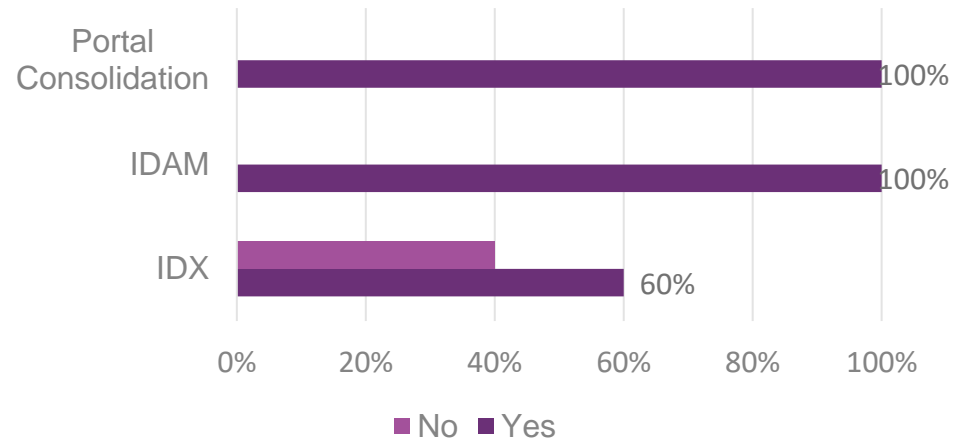
Session	Introduction – IDX, IDAM & PC ✓	Discovery Workshops – IDAM and PC ✓	Target State Discussion ✓	Transition Strategy	Conclusions and Business Case
Agenda	<ul style="list-style-type: none"> • Introduce initiatives • Outline workshop plan 	<ul style="list-style-type: none"> • Pain points and benefits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

Consultation update - sentiment

Indicative focus group alignment on Target state from Technical session



Indicative focus group alignment on Target state from Business session



Target state workshops held on 15 May (Technical Focus Group) and 22 May (Business Focus Group). A participant alignment check was done at both workshops, indicating majority alignment. AEMO is working through participant feedback to assess the nature of feedback for IDX.

Consultation update - schedule

FOR NOTING: Schedule change

Session	Original date	New date
Session 4A: Transition Strategy for Technical Focus Groups	19 June	20 July
Session 4B: Transition Roadmap for Business Focus Groups	26 June	26 July
Session 5: Conclusions and Business Case	10 July	17 August

Focus group members have been informed and calendar invitations have been sent.

Please reach out to us at NEMReform@aemo.com.au if you have any questions or concerns about this date change.

6. Consultation Update



Amendment of automated procedures for determining a manifestly incorrect input

Istvan Szabo

Consultation update

- Submissions on the amendment of [Automated Procedures for Identifying Intervals Subject to Review](#) closed
- Received 3 submissions. AEMO is currently considering the issues raised
- Target publication date for final report and determination is: **20 July 2023**
- Implementation is proposed to be changed to before the coming summer

Operational Forecasting Bid Max Avail changes

Petar Pantic

Implementation of Bid Max Avail for semi-scheduled generators

- Information regarding the implementation of Bid Max Avail for semi-scheduled generators was emailed to the “Operational Forecasting” mailing list on 2 June 2023. This included draft updates to relevant guides and the wind/solar dispatch handbook.

> Rebid Reason: Daily bid

> Bid Details

> Availability Chart

Accumulate bands Adjust prices by loss factors Expand duplicate periods

[Export](#)

Period ID	Period	Max Avail	PASA Avail	Fixed Load	Ramp Up	Ramp Down	Avail 1 \$-1002.90	Avail 2 \$-62.53	Avail 3 \$-54.21	Avail 4 \$-20.82	Avail 5 \$0.00	Avail 6 \$5.64	Avail 7 \$24.59	Avail 8 \$69.75	Avail 9 \$264.22	Avail 10 \$15544.95
1	04:05	0	0		19	19	95	0	0	0	0	0	0	0	0	0

Implementation of Bid Max Avail for semi-scheduled generators

- The Bid Max Avail was implemented in the EMMS Pre-Production environment on 11 May 2023 where participants can test the bid Max Avail for their semi-scheduled unit.
- The current tentative Production implementation date is 12 July 2023. AEMO will advise participants via the mailing list once the Production implementation date is confirmed.
- If you are interested in keeping up to date with these changes and future forecasting updates, please email op.forecasting@aemo.com.au requesting to be added to the mailing list.

7. Procedures Consultation Roadmap

Procedures Consultation Roadmap

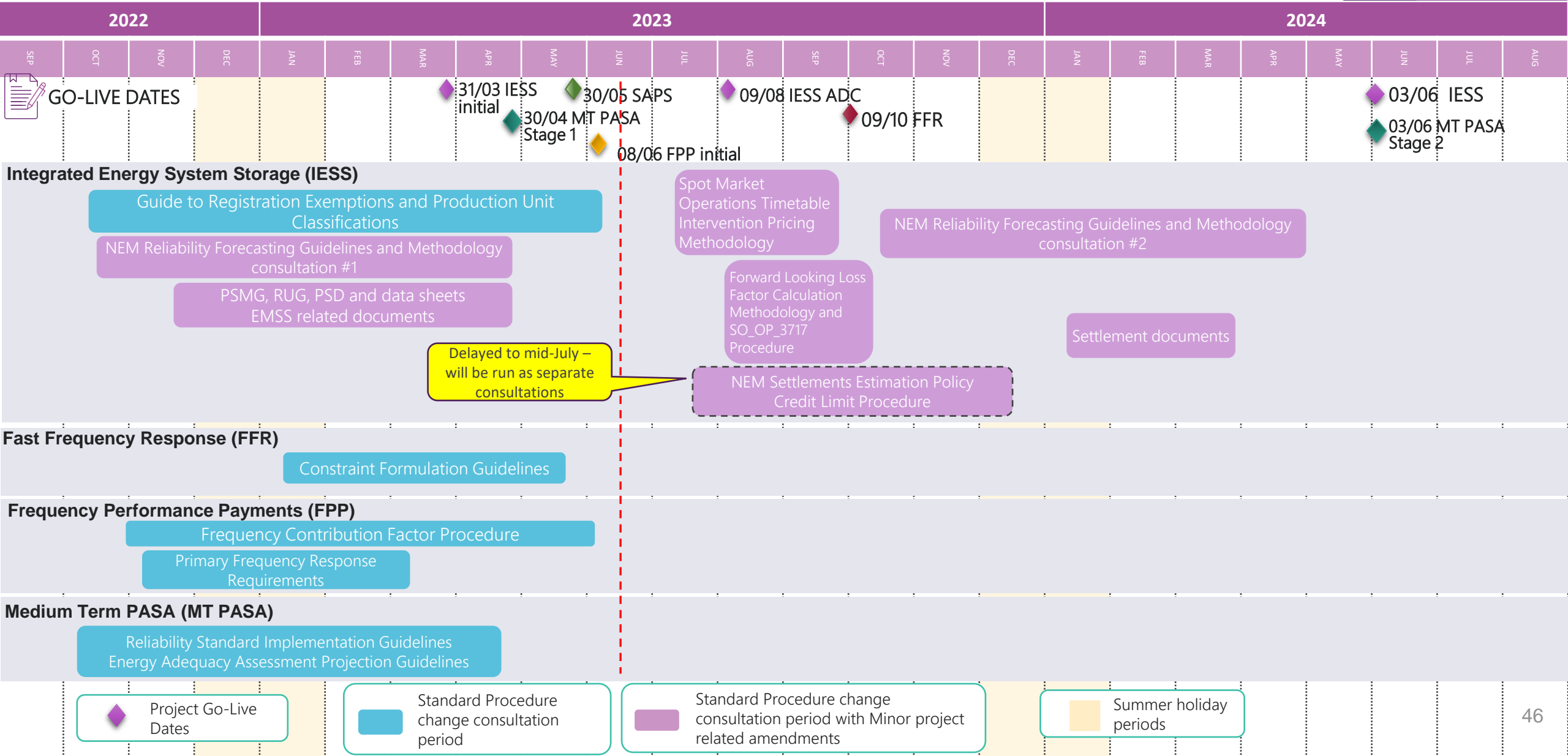
To show stakeholders what documents AEMO is planning to change – including NER review requirements

A tool to manage and plan timeframes for upcoming document changes
- “In-flight” and BAU

Awareness of what is changing and who it impacts within organisations

- “Library” of AEMO Procedures, Guides and documents

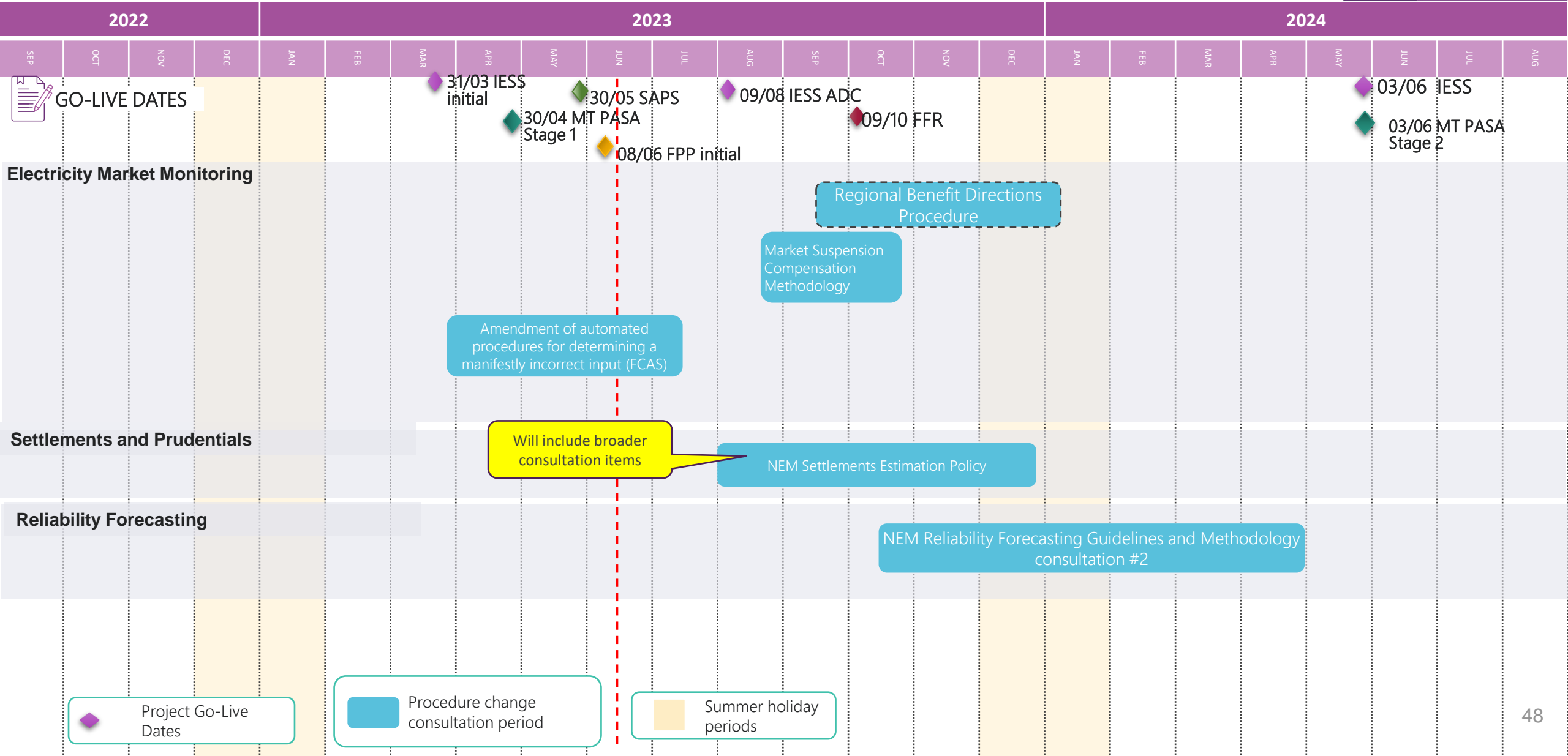
Reform Indicative Procedure Change Timeline



Document Changes Summary – “Inflight”

In-flight projects	Consultation Type	Consultation	Key dates
Integrated Energy System Storage (IESS)	Standard	Guide to Registration Exemptions and Production Unit Classifications	Published 1 June 2023
	Standard	Prudential documents - NEM Settlements Estimation Policy - Credit Limit Procedure	Consultation commencement – mid-July 2023
	Minor and administrative	Dispatch Procedure	Consultation commencement – mid August 2023
	Minor and administrative	Settlement documents	Consultation commencement – Jan 2024
	Standard	Retail Procedures consultation	Draft report - 12 June 2023 Submissions close - 10 July 2023
Frequency Performance Payments (FPP)	Standard	Frequency Contribution Factors Procedure	Published – 1 June 2023

AEMO BAU INDICATIVE Document Change Timeline



Project Go-Live Dates

Procedure change consultation period

Summer holiday periods

AEMO Procedures and Guides Library

We are here



Develop
comprehensive
list of documents



Check each document
has a location on
AEMO website and an
AEMO team owner



Publish a searchable
list on AEMO's
website

- Procedures and Guides will each have:
 - NER reference
 - Short description
 - Version number and Effective Date (where applicable)
- Fact sheets/FAQ and Forms will also be searchable

8. Upcoming Engagements

Upcoming Engagements

JUNE 2023

- FPP: Final Frequency Contribution Factors Procedure published (1 June)
- IESS: Final Guide to Registration Exemptions and Production Unit Classifications published (1 June)
- IESS: Retail Procedures draft report published (12 June)
- PCF: (14 June)
- IESS: ADC for Target aggregates information session (15 June)
- EWCF: (20 June)
- CFG: Final Guidelines published (22 June)
- ERCF: (26 June)
- Implementation Forum (27 June)
- Industry Testing WG: (29 June)

JULY 2023

- IESS: Retail Procedures draft report submissions due (10 July)
- PCF (12 July)
- EWCF (18 July)
- ERCF (24 July)
- Implementation Forum (25 July)
- Industry Testing WG (27 July)
- IESS: Prudentials documents published (tbc July)
- IESS Settlements information session (TBC)

Q3 2023

- PCF (9 August)
- EWCF (15 August)
- ERCF (28 August)
- Implementation Forum (29 August)
- Industry Testing WG (31 August)
- PCF (13 September)
- EWCF (19 September)
- ERCF (25 September)
- Implementation Forum (26 September)

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

Upcoming Engagements

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

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

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

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

NEM Reform Program Forums
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
Placeholder - Executive Forum
NEM Reform General Stakeholder Briefing & Implementation Roadmap Briefing
Initiative Specific Meetings
NEM Reform Foundational and Strategic initiatives
May Go-Live Criteria
Other
National Public Holiday
State/Territory Public Holiday

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

9. General Questions & Other Business



NEMReform@aemo.com.au



[NEM Reform Electricity Wholesale Consultative Forum](#)



Dispatch and reserve condition requests (CS Energy and Shell)

1. Consider the merit of reconvening a Dispatch Pricing Reference Group (DPRG)
2. Reserve Level Declaration Guidelines - These Guidelines describe the considerations and methodology AEMO applies in deciding to declare an LOR condition, and the levels of LOR conditions that may be declared. Current AEMO approach/methodology does not appear to be applied on a consistent basis and arguably varies for different regions
3. When forecast reserve conditions are reconciled with the actual outcome, AEMO utilises the forecast demand and actual supply rather than actual demand and supply to determine the supply/demand balance. Seeking to understand the rationale behind the current practice
4. When issuing Market Notices for actions and/or interventions for the purposes of maintaining power system security, additional information on the nature of the power system issue would be useful for the industry to assist in remediating issues in the future

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: Indicative NEM Reform Foundational and Strategic initiatives

Workshop Structure



SESSION 2:

Dates	Purpose	Audience	Session Outline	Time [AEST] / Length	
SESSION 2: Discovery Workshops – IDAM and Portal Consolidation					
17 April 2023	Introduction: IDAM and PC	Technical and Business Focus Groups	<ul style="list-style-type: none"> • Introduction and Objectives – IDAM and PC • Recap on IDX Discovery (pain points) • AEMO view of IDAM/PC pain points from internal workshop • Workshop outline 	1:00 – 1:30pm (30 mins)	
	Technical Discovery Workshops: IDAM	Technical Focus Group – IDAM	<ul style="list-style-type: none"> • Mural board walk through • Industry pain points workshop • Industry benefits workshop 	1:30 – 3:00pm (1.5 hrs.)	
	Business Discovery Workshops: IDAM	Business Focus Group - IDAM	<ul style="list-style-type: none"> • Mural board walk through • Industry pain points workshop • Industry benefits workshop 	1:30 – 3:00pm (1.5 hrs.)	
	COFFEE BREAK 3:00 – 3:15PM				
	Technical Discovery Workshops: PC	Technical Focus Group – PC	<ul style="list-style-type: none"> • Mural board walk through • Industry pain points workshop • Industry benefits workshop 	3:15 – 4:15pm (1 hr.)	
	Business Discovery Workshops: PC	Business Focus Group - PC	<ul style="list-style-type: none"> • Mural board walk through • Industry pain points workshop • Industry benefits workshop 	3:15 – 4:15pm (1 hr.)	
	Workshop Close	Technical and Business Focus Groups	<ul style="list-style-type: none"> • Summary • Next steps 	4:15 – 4:30pm (15 mins)	

SESSION 3A:

Dates	Purpose	Audience	Session Outline	Time [AEST] / Length	
SESSION 3A: Target State Proposal for Technical Focus Groups					
15 May 2023	Introduction	Technical Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Introduction • Workshop outline 	10:00 - 10:15am (15 mins)	
	Target State Proposal for IDX	Technical Focus Group - IDX	<ul style="list-style-type: none"> • Concept walkthrough • Recap on Discovery workshop outcomes • Proposed Target State models • Feedback 	10:15am – 12:15pm (2 hrs.)	
	LUNCH 12:15 – 1:30PM				
	Target State Proposal for IDAM	Technical Focus Group – IDAM	<ul style="list-style-type: none"> • Concept walkthrough • Recap on Discovery workshop outcomes • Proposed Target State models • Feedback 	1:30 – 3:00pm (1.5 hrs.)	
	AFTERNOON TEA 3:00 – 3:15PM				
	Target State Proposal for PC	Technical Focus Group - PC	<ul style="list-style-type: none"> • Concept walkthrough • Recap on Discovery workshop outcomes • Proposed Target State models • Feedback 	3:15 – 4:15pm (1 hr.)	
Session Close	Technical Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Summary • Next steps 	4:15 – 4:30pm (15 mins)		

SESSION 3B:

Dates	Purpose	Audience	Session Outline	Time [AEST] / Length	
SESSION 3B: Target State Discussion for Business Focus Groups					
22 May 2023	Introduction	Business Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Introduction • Workshop outline 	1:00 – 1:15pm (15 mins)	
	Target State Discussion for IDX	Business Focus Group - IDX	<ul style="list-style-type: none"> • Concept walkthrough • Recap on Discovery workshop outcomes • Sample use cases – B2B, B2M, non-NEM • Feedback 	1:15 – 2:30pm (1.25 hrs.)	
	COFFEE BREAK 2:30 – 2:45PM				
	Target State Discussion for IDAM	Business Focus Group – IDAM	<ul style="list-style-type: none"> • Concept walkthrough • Recap on Discovery workshop outcomes • Sample use cases – B2B, B2M, non-NEM • Feedback 	2:45 – 3:45pm (1 hr.)	
	Target State Discussion for PC	Business Focus Group – PC	<ul style="list-style-type: none"> • Concept walkthrough • Recap on Discovery workshop outcomes • Sample use cases – B2B, B2M, non-NEM • Feedback 	3:45 – 4:45pm (1 hr.)	
	Session Close	Business Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Summary • Next steps 	4:45 – 5:00pm (15 mins)	

SESSION 4A:

Dates	Purpose	Audience	Session Outline	Time [AEST] / Length	
SESSION 4A: Transition Strategy for Technical Focus Groups					
19 June 2023	Introduction	Technical Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Introduction and objectives • Workshop outline 	10:00 – 10:15am (15 mins)	
	Transition Strategy, Impacts & Benefits – IDX and IDAM	Technical Focus Group – IDX Technical Focus Group – IDAM	IDX: <ul style="list-style-type: none"> • Enabling progressive transition • N -1 discussion • Sunset timeframe discussion • Propose principles for utilization IDAM: <ul style="list-style-type: none"> • Aligned with IDX & PC take up • Sunset timeframes Impacts & Benefits of IDX and IDAM initiatives – Technical view	10:15am – 12:30pm (2.25 hrs.)	
	LUNCH 12:30 – 1:30PM				
	Transition Strategy, Impacts & Benefits - PC	Technical Focus Group – PC	PC: <ul style="list-style-type: none"> • Align to initiatives • Sunset timeframes 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"> • Summary • Next steps 	2:45 – 3:00pm (15 mins)		

SESSION 4B:

Dates	Purpose	Audience	Session Outline	Time [AEST] / Length
SESSION 4B: Transition Roadmap for Business Focus Groups				
26 June 2023	Introduction	Business Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Introduction and objectives • Walkthrough of the principles for NEM2025 • Overview of the IDX, IDAM and PC Transition Roadmap 	1:00 – 1:30 (30 mins)
	Transition Roadmap, Impacts & Benefits – IDX and IDAM	Business Focus Group – IDX Business Focus Group – IDAM	<ul style="list-style-type: none"> • Present Roadmap for IDX and IDAM aligned to NEM2025 • Present Impacts and Benefits – Business view 	1:30 – 3:30pm (2 hrs.)
	COFFEE BREAK 3:30 – 3:45PM			
	Transition Roadmap, Impacts & Benefits – PC	Business Focus Group – PC	<ul style="list-style-type: none"> • Present Roadmap for PC aligned to NEM2025 • Present Impacts and Benefits – Business view 	3:45 – 4:45pm (1 hr.)
	Session Close	Business Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Summary • Next steps 	4:45 – 5:00pm (15 mins)

SESSION 5:

Dates	Purpose	Audience	Session Outline	Time [AEST] / Length
SESSION 5: Conclusions and Business Case				
10 July 2023	Conclusions & Business Case	Business Focus Groups – IDX, IDAM and PC	<ul style="list-style-type: none">• Introduction and re-cap of Sessions 3 and 4• Present key options – Incremental upgrade vs Early Transition• Recommendations and considerations• Session close	1:00 – 3:00 pm (2 hrs.)



For more information visit

aemo.com.au