

# IESS Working Group

Meeting 1  
27 APR 2022



# 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

#	Approx. Time	Topic	Presenter/s
1	10:00-10:10	Welcome	Emily Brodie, AEMO
2	10:10-10:20	Context	Peter Carruthers, AEMO
3	10:20-10:25	Working Group purpose and expectations	Emily Brodie, AEMO
4	10:25-10:35	Rule overview	Trent Morrow, AEMO
5	10:35-11:35	AEMO's IESS Project	
5.1		Project overview	Celestino Velasco, AEMO
5.2		Indicative schedule	
5.3		System heatmaps	
5.4		IESS High Level Design	Emily Brodie, AEMO
5.5		Proposed procedure change approach	Gareth Morrah, AEMO
5.6		Proposed Stakeholder engagement approach	Ulrika Lindholm, AEMO
6	11:35-11:45	Forward agenda	
7	11:45-12:00	General questions and close	Emily Brodie, AEMO

**Appendix A: Forum and Meeting Expectations and Competition Law Meeting Protocol**

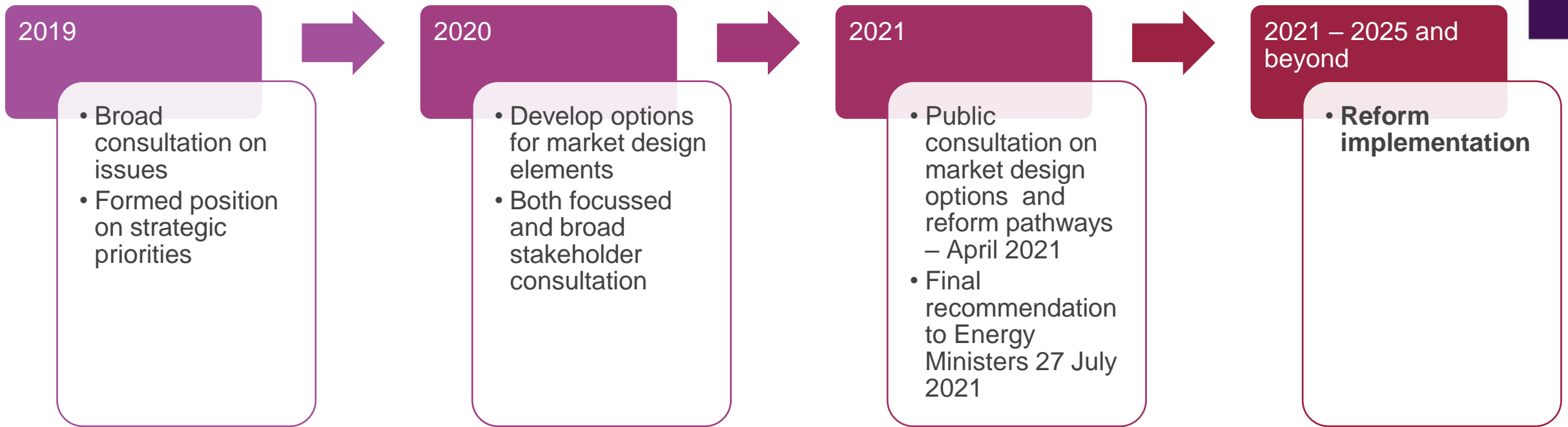
**Appendix B: Procedures to be updated for IESS**

*Please note that this meeting will be recorded for the purpose of note taking, and not for publication.*

# 2. Context

# ESB Post-2025 Electricity Market Design Program

COAG Energy Council tasked the Energy Security Board to design a long-term, fit for purpose market design for the NEM



# Four major reform workstreams were put forward, each with a set of initiatives

Workstreams	Objective	This means
<b>Resource Adequacy Mechanisms and Ageing Thermal Generation Strategies</b>	Facilitate the orderly retirement of the ageing thermal fleet and have sufficient replacement generation in place	We have investment in the right mix of resources (generation, storage and demand response) in place prior to anticipated plant closures, and that plant exit does not cause significant price or reliability shocks to consumers through the transition
<b>Essential System Services, Scheduling &amp; Ahead Mechanisms</b>	Availability of resources that provide essential system services to balance the highly variable dynamics of the changing generation mix, without AEMO intervention. AEMO has the right tools to manage the greater complexity and uncertainty to schedule these resources so they are available when they are needed	We have the resources and services when needed to manage the complexity of dispatch and to deliver a secure supply to customers
<b>Integration of DER and Flexible Demand</b>	Enable the integration of DER and value flexible demand so they can provide services to networks, the wholesale market and other consumers	New opportunities for consumers about how they receive and use energy and are rewarded for doing so flexibly
<b>Transmission and Access</b>	The addition of transmission investments to enable the new generation and market arrangements and that new generation and storage locates and operates in ways that use transmission investment efficiently	We have a network to meet future needs, renewable energy zones, and a targeted set of investments that can deliver the energy transition at lower cost

# NEM2025 Implementation Roadmap & the Reform Delivery Committee (RDC)

The “**NEM2025 Implementation Roadmap**” is to establish a basis upon which AEMO and stakeholders may navigate the breadth of ESB reforms over the coming few years, de-risking delivery and informing implementation timing

- In design of the NEM2025 Implementation Roadmap (‘Roadmap’), the Reform Delivery Committee (RDC) aim to set out a program that:
  - Implements reforms in a timely and efficient manner;
  - Co-ordinates regulatory and IT change; and
  - Provides transparency to stakeholders on the implementation program
- Extensive scope of reforms will require major change to market and participant systems
- Pre-requisite and strategic opportunities will need to be understood and factored in
- Dependencies will be critical for sequencing and efficiency
- Different pathways/options likely to exist
- AEMO’s objective is a collaborative approach to identifying and understanding the pathways and implications – as opposed to a consultative approach

*Scope of NEM2025 Implementation Roadmap (Version 1)*

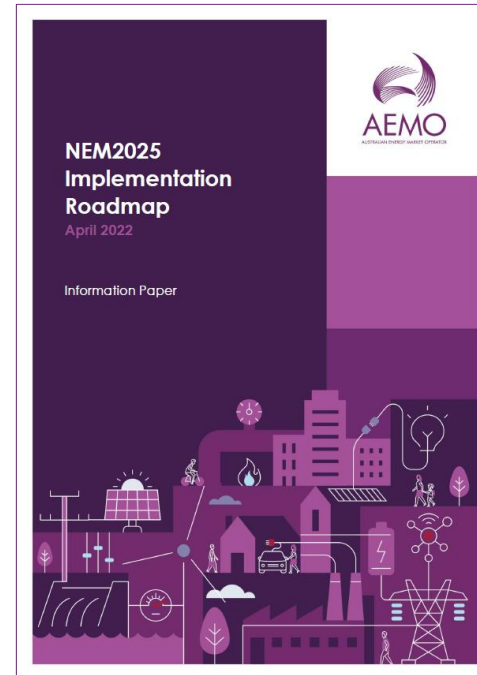
Pathway	Reform Initiative
Resource Adequacy Mechanism	<ul style="list-style-type: none"> <li>• Increased MT PASA Information</li> </ul>
Essential System Services	<ul style="list-style-type: none"> <li>• Fast Frequency Response</li> <li>• Mandatory Primary Frequency Response</li> <li>• Operating Reserve Market</li> <li>• System Strength (Planning)*</li> <li>• Structured Procurement &amp; Scheduling Mechanism</li> </ul>
Integration of DER & Flexible Demand	<ul style="list-style-type: none"> <li>• Integrating Energy Storage</li> <li>• Flexible Trading Arrangements (Model 2)</li> <li>• Scheduled Lite</li> <li>• Dynamic Operating Envelopes</li> <li>• Distribution Local Network Services</li> <li>• Turn-up Services</li> <li>• DER Platform Registry Services</li> <li>• Market &amp; System Operator Integration</li> </ul>
Transmission & Access	N/A at this time
Data Strategy	<ul style="list-style-type: none"> <li>• Data Services</li> <li>• EV Charging Standing Data Register</li> <li>• Bill Transparency</li> <li>• Network Transparency</li> </ul>

\*Led by transmission network service providers



# Roadmap release and consultation

- Version 1 of the NEM2025 Implementation Roadmap will be published on the [Reform Delivery Committee webpage](#) (27 April release).
- AEMO is holding a stakeholder forum on the NEM2025 Implementation Roadmap and the Regulatory Implementation Roadmap (version 7) on 11 May 2022 from 10.30 am to 12.00 pm AEST. Please register your interest to attend [here](#) by **6 May 2022**.
- Submissions in response to the Information Paper may be sent to [stakeholderrelations@aemo.com.au](mailto:stakeholderrelations@aemo.com.au) by 5.00 pm AEST on **20 May 2022**.

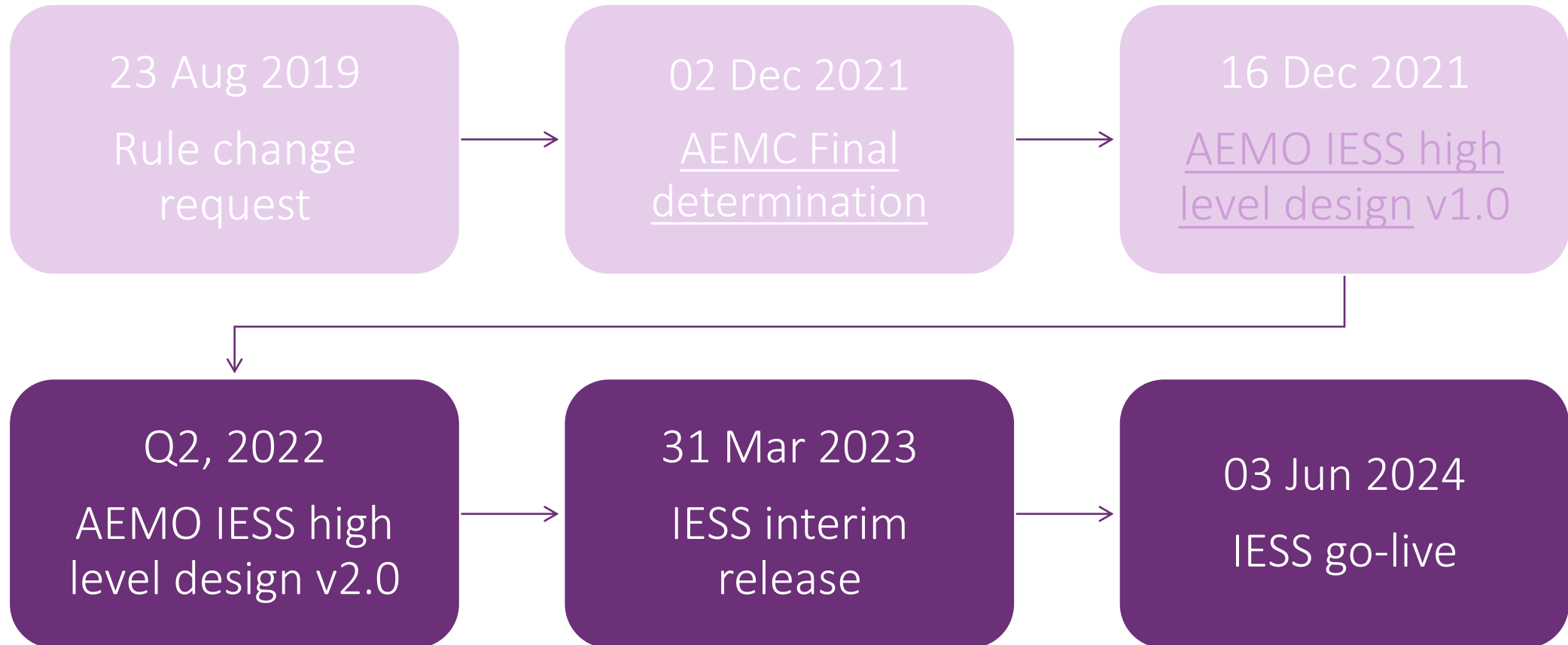


# 3. IESS WG purpose and expectations

Stakeholders are asked to note the Forum and Meeting Expectations and Competition Law Meeting Protocol attached in Appendix A

# 4. Rule overview

# IESS rule change



# IESS Rule Overview

## Registration

**Integrated Resource Provider (IRP)** is a new category for use by participants with storage and hybrid systems

**Bidirectional Units** for resources that can consume and produce energy

Market Small Generator Aggregators will transfer to IRP with **Small Resource Aggregator** label.

Market Small Generator Aggregators will be able to **provide market ancillary services**

## Participation and Scheduling

Outlines scheduling obligations for **hybrid systems** (including DC coupled systems)

Scheduling arrangements for **bidirectional units** include:

- single DUID
- 20 bid bands for energy
- 10 bid bands for each FCAS service

Introduces assessment of **dispatch conformance** in aggregate.

*\* In some dispatch intervals, particular units may be required to conform individually*

## Settlement

**Non energy cost recovery framework** updated so that payments apply equally to all Cost Recovery Market Participants, removing existing differences due to registration category

Recovery will be based on a participant's share of gross consumed energy and/or gross sent out energy in an interval across its connection points

Transitional rules apply from 31 March 2023

# 5. AEMO's IESS Project

# 5.1 Project Overview



# AEMO's IESS project team

PROJECT  
MANAGER  
Celestino Velasco

BUSINESS LEAD  
Emily Brodie

IT LEAD  
Deep Juneja

STAKEHOLDER  
LEAD  
Ulrika Lindholm

PROCEDURE  
LEAD (ACTING)  
Gareth Morrah



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



# IESS PROJECT

Workstreams:	CONNECTIONS	REGISTRATION	DISPATCH	SETTLEMENTS	RETAIL
Initial release: 31 Mar 2023	No changes for release #1	Aggregators can provide FCAS Hybrid systems to use aggregated dispatch conformance	Aggregators can provide FCAS Hybrid systems to use aggregated dispatch conformance	No changes expected for release #1	No changes for release #1 (B2M or B2B)
Final release: 03 Jun 2024	Storage, hybrid & coupled connections	Integrated Resource Provider (IRP) registration Bidirectional unit (BDU) classification	BDU bidding & dispatch (energy & FCAS) BDU dispatch conformance Operational planning & forecasting	Settlement & prudentials (including non-energy cost recovery)	Integrated resource provider access to MSATS, eMDM & PAE B2B changes (IEC-led)

PROCEDURE CHANGE

INDUSTRY READINESS, TESTING AND RISK MANAGEMENT

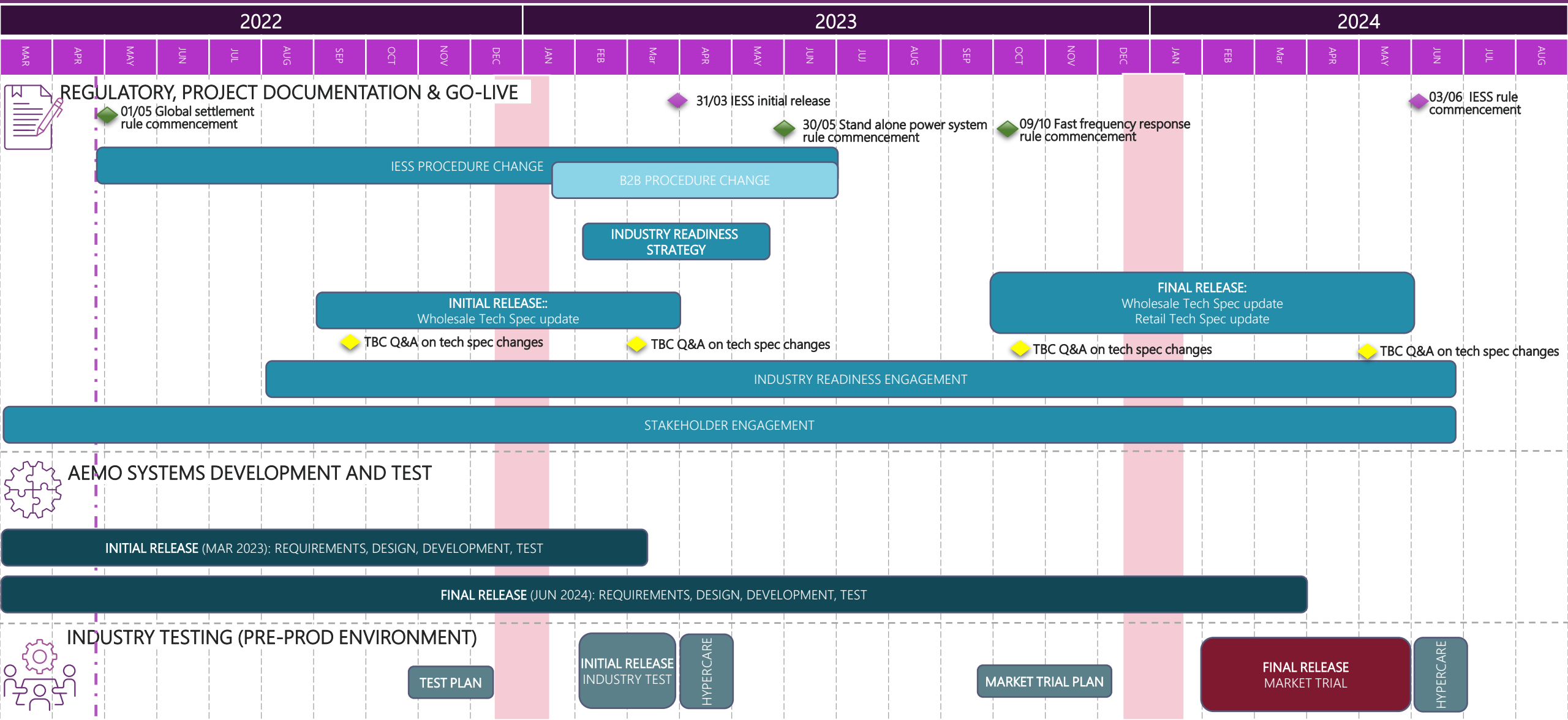
AEMO READINESS, TESTING, RISK AND RELEASE MANAGEMENT

STAKEHOLDER ENGAGEMENT

# 5.2 Schedule



# IESS – Indicative Industry Timeline



- IESS Confirmed
- IESS Indicative
- Concurrent initiatives
- Summer holiday periods: Avoid industry IESS activities where possible
- Market trial:** Feb-24 configure environment; Mar-24 1<sup>st</sup> test cycle; Apr-24 2<sup>nd</sup> test cycle; May-24 remediation

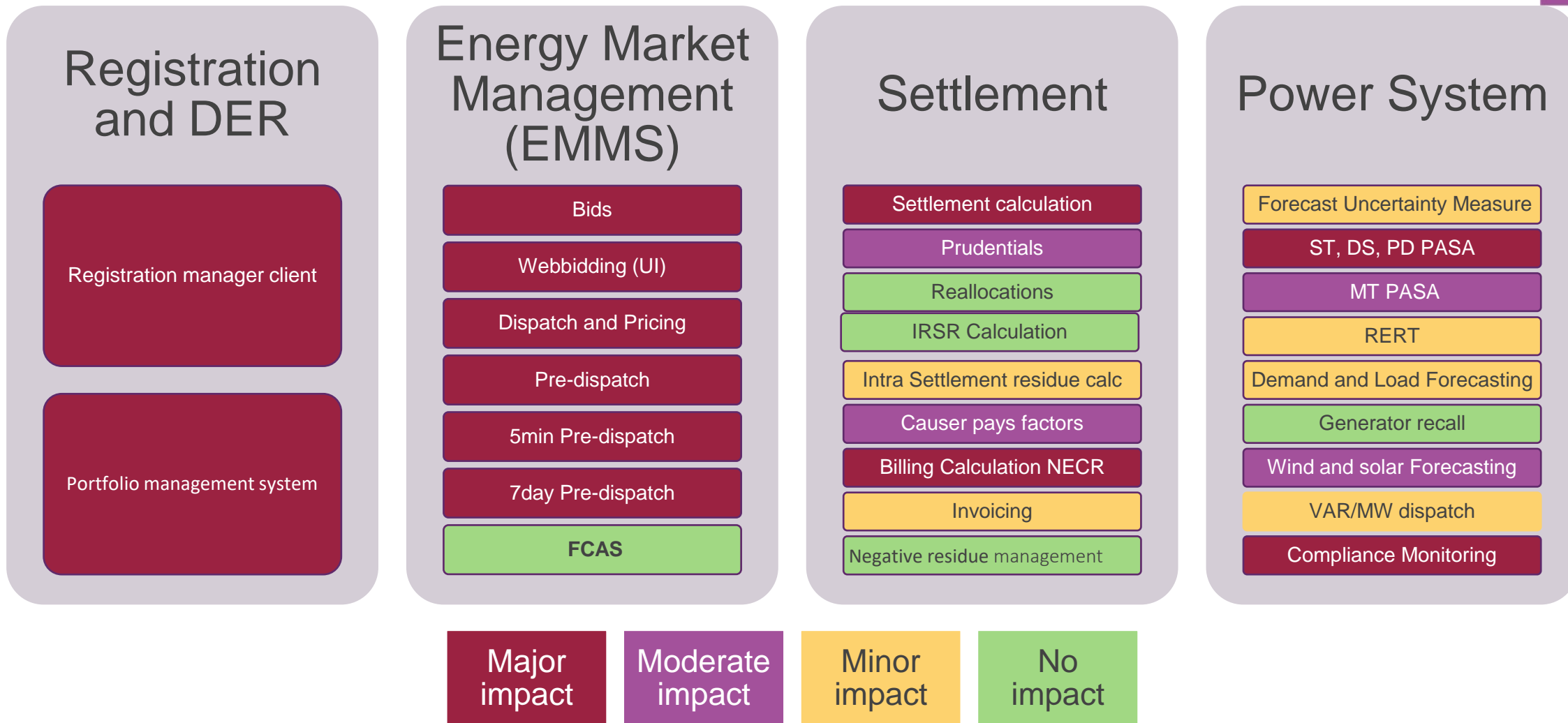
# Discussion on schedule

- Guidelines used for scheduling:
  - Prioritise scope items for Initial Release
  - Procedure consultation outcomes to feed into system changes
  - Technical spec and plans provided to industry early
  - Final Release to include Market Trial
  - Consider dependencies and overlap with other NEM2025 initiatives
  - Learnings from Five-minute settlement and other recent reform programs
- AEMO is seeking industry feedback on the proposed schedule
  - Timing of planned activities
  - AEMO and stakeholders' resourcing and scheduling, including resourcing over the summer periods

# 5.3 System Heatmaps



# IESS NEM WHOLESALE SYSTEMS: AEMO change heat map



# IESS NEM RETAIL SYSTEMS: AEMO change heat map

## B2M / B2B interfaces

B2M aseXML schema

NMID

CATS

MSATS B2M APIs

B2B transactions

B2B aseXML schema

## CATS / MDM processes

Profiling

CATS standing data

Meter data validation

Estimation / substitution

Energy allocation

CR processing

## MSATS browser / reports

Meter data screens

Reports

SDR

NMID

Major  
impact

Moderate  
impact

Minor  
impact

No impact

# 5.4 IESS High Level Design





# IESS HLD overview

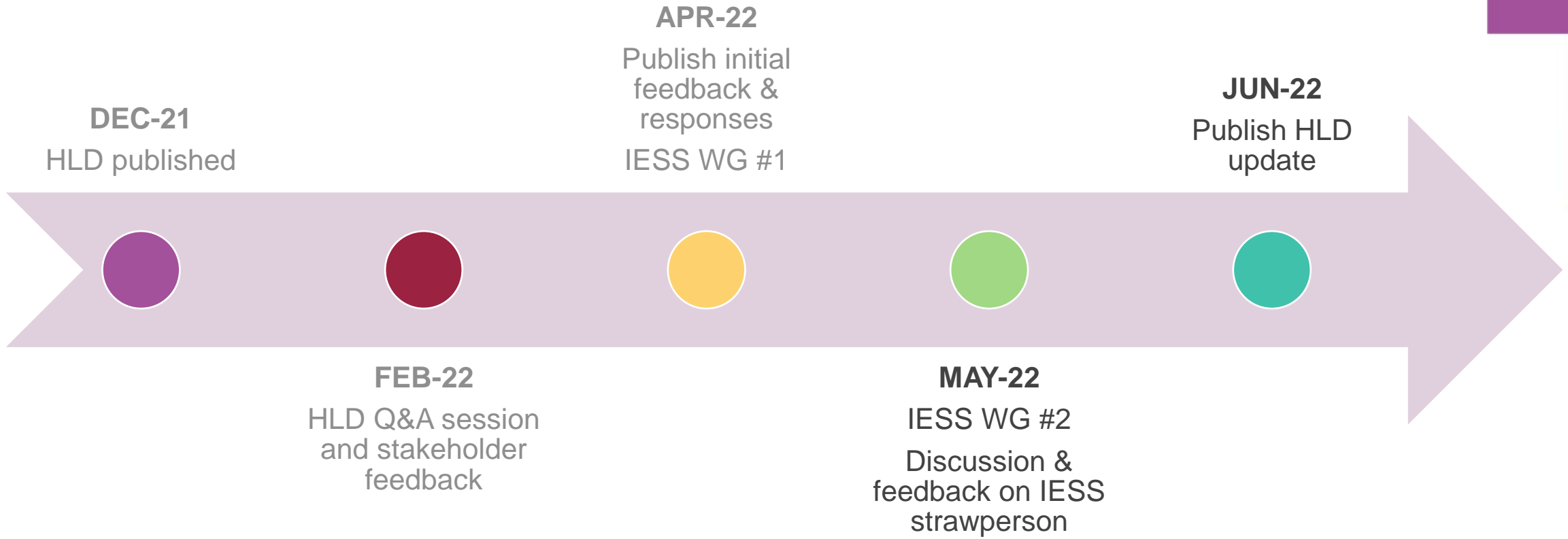
<https://aemo.com.au/initiatives/submissions/integrating-energy-storage-systems-iess-into-the-nem>

- HLD Purpose:
  - Outlines AEMO's system and operation changes
  - Assists stakeholders to start scoping their own IESS obligations
- Thank you to the 7 organisations that provided feedback on a range of matters:
  - Registration
  - Small resource connection points
  - Hybrid systems
  - Consultation
- Feedback summary and AEMO's responses will be published shortly

# IESS HLD next steps

TIMING	ACTIVITY
April / May	AEMO develops “implementation strawperson” to show: <ul style="list-style-type: none"> <li>• Industry impacts i.e. where market systems’ interfaces are affected by IESS changes</li> <li>• Market data flows under IESS</li> </ul>
May / June	IESS WG to provide feedback on IESS strawperson <ul style="list-style-type: none"> <li>• Discussion at next IESS WG</li> <li>• Feedback via <a href="mailto:iess@aemo.com.au">iess@aemo.com.au</a></li> </ul>
June	AEMO expects to publish next iteration of HLD, incorporating: <ul style="list-style-type: none"> <li>• Implementation strawperson</li> <li>• Stakeholder feedback where appropriate</li> <li>• Updates and corrections</li> </ul>

# IESS High Level Design



# 5.5 Procedures



# Procedure change scope

- AEMO has identified 72 documents that require IESS changes
  - For transitional rule 11.145.3 (Registration transition for new Integrated Resource System (IRS) Participants): AEMO has made changes to the generator application form and generator application guide to address the transitional rule.
  - 16 require a formal 'rules' consultation
  - 54 'minor or administrative'
- High level of confidence that full list has been identified at this time
- However, during the 2+ year course of the project it is possible that scope of procedure updates could change
  - NER changes or ESB initiatives
  - Program implementation and testing activities
- Propose that AEMO and IESS WG:
  - Monitor for such changes via an project-specific industry risks and issues register (see forward agenda)
  - Make reasonable adjustments to procedure change scope where appropriate via IESS WG discussion (and through other forums if relevant)
- Seeking feedback on completeness of procedure list

# Proposed procedure change approach

Type of change	AEMO obligation	Proposed approach
Standard consultation	NER 8.9 consultation obligations	<ul style="list-style-type: none"> <li>AEMO must consult according to NER 8.9</li> </ul>
Minor & administrative	For IESS, <b>NER 11.145.9(c)</b> allows AEMO to make minor or administrative amendments to a number of procedures i.e. no obligation to consult for non-substantive change.	<ul style="list-style-type: none"> <li>AEMO will publish the amended procedure and may invite feedback from participants.               <ul style="list-style-type: none"> <li>Engagement could be via a related 'rules consultation'</li> </ul> </li> <li>There are no rules defined time frames for response.*</li> </ul>
Information paper	Relates to guides, procedures, Q&A's etc that are published on AEMO's website but do not have a requirement for publication or consultation under the rules.	<ul style="list-style-type: none"> <li>AEMO will publish the amended procedure and may invite feedback from participants.               <ul style="list-style-type: none"> <li>Engagement could be via a related 'rules consultation'</li> </ul> </li> <li>There are no rules defined time frames for response.</li> </ul>

\*AEMO is monitoring upcoming rule change: *Improving consultation procedures in the Rules*

- Draft determination** proposes two new consultation processes:
  - Non-material changes: 10 week expedited consultation process
  - Minor and administrative changes: 2 week consultation
- Final determination expected 7 July 2022

# Updating procedures: Proposed approach

- AEMO will consult on packages of related topics:
  - Connections and registration
  - Forecasting and planning
  - Operations and dispatch
  - Settlements and prudentials
  - Retail and metering

# IESS procedure change impact

Category	Release	New	Standard consultation	Minor or administrative	Information paper	TOTAL
Connections & registration	Initial		1			1
	Final	1*				1*
Forecasting & planning	Initial			5		5
	Final		1	15		16
Operations & dispatch	Initial				1	1
	Final		8	6	1**	14**
Settlements & prudentials	Final		2	5		7
Retail/Metering and B2B	Final		4	23		27
<b>TOTAL</b>		<b>1</b>	<b>16</b>	<b>54</b>	<b>1**</b>	

\* Changes may be incorporated into existing procedures

\*\* Potentially two consultations for Dispatch Procedure (one for initial release, one for final release) – to be discussed at May IESS WG



# Grouping and scheduling procedure changes

- For efficient procedure change grouping and scheduling, need to consider:
  - Initial or final IESS go-live (Mar-23 or Jun-24)
  - System development dependencies
  - IESS NER requirement
  - Concurrent consultations
    - e.g. *Market Ancillary Services Specification* needs updating for both IESS and Fast Frequency Response in similar timeframes
  - Market operations dependencies e.g. reallocations
  - Procedure development work
    - e.g. B2B updates may have dependencies on B2M updates
  - Special NER consultation obligations
    - Metrology procedures
    - B2B procedures via Information Exchange Committee
  - Emerging NEM2025 initiatives and rule changes

# MASS consultation

- IESS updates in the Market Ancillary Services Specification (MASS) are minor and administrative:
  - IESS changes are definitions only
    - Ancillary Service Facility
    - Aggregated Ancillary Service Facility
- AEMO will soon be consulting on *Fast Frequency Response* rule change updates to the MASS. Once that is completed, AEMO will make the minor/administrative IESS changes likely in the first half of 2023.

# Updating procedures: Next steps

Activity	Date
IESS WG to provide feedback on proposed procedure change approach including: <ul style="list-style-type: none"><li>• Scope</li><li>• Grouping</li></ul>	Wed 11 May
At next IESS WG, AEMO to: <ul style="list-style-type: none"><li>• Confirm procedure change approach</li><li>• Discuss indicative schedule for procedure changes</li></ul>	Wed 25 May
In relation to the dispatch procedures, discuss: <ul style="list-style-type: none"><li>• Issues for consultation</li><li>• Approach to consultation</li></ul>	Wed 25 May

# 5.6 Proposed Stakeholder Engagement approach



# I ESS-WG Focus

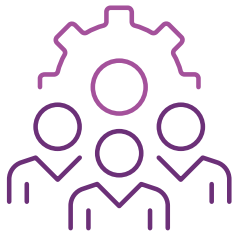
## Topics

- Industry check on HLD and implementation strawperson
- Procedure changes
- Tech spec changes
- Industry readiness including industry testing/market trials
- Risks and issues

## Objectives

- To enable effective consultation between AEMO and stakeholders on matters relating to the IESS implementation
- To provide stakeholders and AEMO with the opportunity to raise and address issues relating to document changes and development required as a result of the IESS rule
- To provide stakeholders with an opportunity to share information and insights that will contribute to achieving IESS objectives

# IESS implementation stakeholders



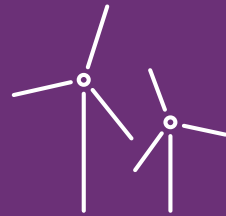
## AEMO

- Responsible, Impacted and Interested AEMO staff



## NEM Participants

- Potential Integrated Resource Providers (IRPs)
- Small Generator Aggregators (SGAs)
- Demand Response Providers (DRSPs)
- Market Customers
- Generators incl scheduled, semi, non
- Other Ancillary Service Providers
- Intending Participants



## Industry value chain

- Infrastructure Project Developers and Investors
- Manufacturers (incl OEMs)
- Energy Services companies
- Consultants



## Industry bodies

- Clean Energy Council
- Australian Energy Council
- Energy Networks Australia
- Energy Efficiency Council



## Consumer groups

- Energy Consumers Australia
- Energy Users Association of Australia



## Market bodies

- Energy Security Board
- Australian Energy Market Commission
- Australia Energy Regulator



## Government

- State and Territory energy departments (NEM jurisdictions)

# Engagement and Comms principles

The IESS forms part of the ESB Post-2025 reform portfolio which is designed to enable reliable, affordable and lower emissions electricity in the NEM.

AEMO harness the power of collaboration and cooperation among industry and other stakeholders to accomplish the implementation of this program of initiatives. Accordingly, the following stakeholder engagement and communications principles are proposed for the project:



Stakeholders are actively involved in the process of translating policy and rules into projects, sequencing, and providing advice and feedback to optimise design and delivery.



Program engagement and communications are customer-centric, timely, consistent, reliable and build trust through transparency.



Program engagement and communications are informed, tailored, consider various perspectives, seek to build common understanding and to solve problems collaboratively with stakeholders to help build productive relationships.



A multi-channel approach is used to achieve program engagement and communications' objectives, that leverages and builds on existing channels, forums and governance mechanisms, to reinforce program messages and increase the likelihood that messages are received and understood.

# Engagement & Communications approach

Channel	Purpose	Stakeholders	Cadence
IESS WORKING GROUP (IESS-WG)	<ul style="list-style-type: none"> <li>Provide co-ordinated view of IESS implementation</li> <li>Enable two-way dialogue between AEMO and industry to identify, address and resolve IESS implementation issues</li> </ul>	<ul style="list-style-type: none"> <li>Affected and interested stakeholders can nominate one primary member and one alternative member.</li> </ul>	2-3 hours Monthly
FOCUS GROUPS	<ul style="list-style-type: none"> <li>Deep dive on specific technical issues</li> <li>Provide expertise on specific elements of IESS implementation</li> </ul>	<ul style="list-style-type: none"> <li>Subject matter experts nominated by IESS-WG members</li> </ul>	Half –Full days, As required
RULES CONSULTATION	<ul style="list-style-type: none"> <li>Formal NEM procedure consultations (NER 8.9)</li> </ul>	<ul style="list-style-type: none"> <li>Impacted industry stakeholders as required</li> </ul>	In alignment to project schedule
NON-RULES CONSULTATION	<ul style="list-style-type: none"> <li>Call for feedback on specific documents such as technical specifications</li> </ul>	<ul style="list-style-type: none"> <li>Impacted industry stakeholders</li> </ul>	In alignment to project schedule
Q&A SESSIONS	<ul style="list-style-type: none"> <li>Provide AEMO SME assistance on specific implementation topics</li> </ul>	<ul style="list-style-type: none"> <li>Any affected and interested stakeholders</li> </ul>	1-2 hours, As recommended by AEMO or IESS-WG
EDUCATION SESSIONS	<ul style="list-style-type: none"> <li>Provide foundational knowledge to stakeholders on key topics relevant to the success of the implementation</li> </ul>	<ul style="list-style-type: none"> <li>Members of the IESS Working Group</li> </ul>	1-2 hours, As recommended by AEMO or IESS-WG
1 TO 1 MEETINGS	<ul style="list-style-type: none"> <li>Provide guidance, where appropriate and feasible,</li> </ul>	<ul style="list-style-type: none"> <li>As required</li> <li>Participant driven</li> </ul>	As required
DEDICATED MAILBOX	<ul style="list-style-type: none"> <li>Provide coordination point for implementation program</li> <li>Connect stakeholders with the correct AEMO representative to assist with questions or suggestions</li> </ul>	<ul style="list-style-type: none"> <li>As required</li> </ul>	Throughout the program
PRESENTATIONS TO EXISTING AEMO AND INDUSTRY FORUMS & WORKING GROUPS	<ul style="list-style-type: none"> <li>For coordination purposes and to minimise overlapping engagements for stakeholders. For example Consumer Forum, ERCF etc.</li> </ul>	<ul style="list-style-type: none"> <li>As required</li> </ul>	One offs as required
DEDICATED PROJECT WEBSITE	<ul style="list-style-type: none"> <li>Provide transparent, timely information on program. Linking relevant implementation information for individual reform initiatives. Final versions of documents are published on the website.</li> </ul>	<ul style="list-style-type: none"> <li>Industry and general public</li> </ul>	Throughout the project
NEWSLETTER	<ul style="list-style-type: none"> <li>Provide transparent and timely information on program management and implementation progress</li> </ul>	<ul style="list-style-type: none"> <li>Stakeholders involved in working groups</li> </ul>	TBC



# 7. Forward agenda

# Indicative forward plan

APRIL 2022	MAY 2022	JUNE 2022	BEYOND
<ul style="list-style-type: none"> <li>Initial mthly meeting (today)</li> <li>Stakeholder survey on impacts and requirements</li> </ul>	<ul style="list-style-type: none"> <li>Mthly meeting</li> <li>Publish feedback &amp; responses on initial HLD</li> <li>Stakeholder feedback on project, procedure change approach and engagement approach <b>by 11 May</b></li> <li>Discussion on IESS strawperson</li> <li>Early engagement regarding non-rules consultation on Power System Dispatch procedure</li> <li>Engagement on minor definitional changes to the MASS</li> </ul>	<ul style="list-style-type: none"> <li>Mthly meeting</li> <li>HLD update published</li> <li>Power System Dispatch procedure - issues paper likely to be published June</li> <li>Discussion on IESS industry risks and issues register</li> <li>Procedure consultation starts (early June)</li> <li>Educational session – topic TBC*</li> </ul>	<ul style="list-style-type: none"> <li>Mthly meeting</li> <li>Procedure consultation cont'd</li> <li>Potential stakeholder workshop on IESS dispatch</li> <li>Discussion on approach to updating Technical Specifications</li> </ul>

Stakeholder feedback may be sent to the IESS mailbox: [IESS@aemo.com.au](mailto:IESS@aemo.com.au)

Standing agenda - monthly meetings

- Notes, actions and feedback from previous WG meeting
- Project update
- Procedures update
- HLD/implementation strawperson update
- Forward Plan including upcoming workshops etc (this page)

\* To be informed by Stakeholder survey and project planning

# 8. General questions and close

# IESS project contact



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



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



For more information visit

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

# Appendix A: Forum expectations and competition law



# 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 behaviour 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: Procedures to be updated for IESS



# Initial Release - March 2023

TOPIC	PROCEDURE	METHOD
Connections & registration	Generator application form and generator application guide	Completed
Forecasting & planning	Australian Wind Energy Forecasting System	Minor and Administrative
	AWEFS Energy Conversion Model	Minor and Administrative
	ASEFS Energy Conversion Model	Minor and Administrative
	Guide to Data Requirements for AWEFS and ASEFS	Minor and Administrative
	NEM Operational Forecasting and Dispatch Handbook for wind and solar generators	Minor and Administrative
Operations & dispatch	Dispatch procedure OP_3705	Information paper

# Go-live June 2024: Standard procedure consultations (1/2)

TOPIC	PROCEDURE
Connections & registration	Classifying a DC-coupled System as a Semi-Scheduled Unit – New or amended procedure
Forecasting & planning	System Strength Impact Assessment Guidelines V1.0
Operations & dispatch	Forward Looking Loss Factor Calculation Methodology
	Regulation FCAS Contribution Factors Procedure
	Guide to FTP Energy, FCAS, and MNSP Bids and Offers
	Guideline and Template for Preparation of a Releasable User Guide
	Inter-network test guidelines V2.0
	Power System Data Communication Standard V2.0
	Power System Model Guidelines V1.0
	Power System Design and Setting Data Sheets V1.1

# Go-live June 2024: Standard procedure consultations (2/2)

TOPIC	PROCEDURE
Settlements & prudentials	NEM Settlements Estimation Policy
	Carbon Dioxide Equivalent Intensity Index Procedures
Retail/metering and B2B	Retail Electricity Market Glossary and Framework
	MSATS Procedure: CATS
	MSATS Procedure: WIGS
	Standing Data for MSATS

# Go-live (June 2024)

## Minor/administrative consultations (1/4)

### FORECASTING & PLANNING

Semi-Scheduled Generation Dispatch Self-Forecast – Assessment Procedure	Electricity demand forecasting methodology information paper
Guide to Intermittent Generation	DSP forecasting methodology
Participant Forecasting FAQ	Energy Adequacy Assessment Projection guidelines
Semi-Scheduled Generator Self-Forecast - Application Form	Reliability forecast guidelines
Semi-Scheduled Generation Dispatch Self-Forecast – Assessment Procedure	Reliability standard implementation guidelines
Connection point forecasting methodology	Generation information guidelines
MT PASA process description	Demand Side Participation Information Guidelines
ESOO & Reliability forecasting methodology	

# Go-live (June 2024)

## Minor/administrative consultations (2/4)

### OPERATIONS & DISPATCH

Constraint Formulation Guidelines

Market Ancillary Service Specifications

Market Suspension Compensation Methodology

Spot Market Operations Timetable

Intervention Pricing Methodology.

SO\_OP\_3707 Procedures for issue of directions and clause 4.8.9 instructions (Intervention, Direction and Clause 4.8.9 Instructions)

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# Go-live (June 2024) Minor/administrative consultations (3/4)

## SETTLEMENTS & PRUDENTIALS

Credit Limit Procedures

Settlements guide to ancillary service payments and recovery

NEM Direction Compensation Recovery

RRO PoLR Cost Procedures

WDR Baseline Eligibility Compliance and Metrics Policy

# Go-live (June 2024)

## Minor/administrative consultations (4/4)

### RETAIL/METERING & B2B

Metrology Part A National Electricity Market	Guide to Participant Batcher Software
Metrology Part B Metering Data Validation, Substitution and Estimation Procedure for Metering Types 1–7	Guide to User Rights Management
CATS History Model	Guide to MSATS B2B
Technical Guide to Bulk Data Tool	Validation Module
Guide to MSATS and B2B Terms	MSATS Procedure: MDM
Guide to Enterprise Metering Data Management	NEM RoLR Processes - Part A (MSATS)
Introduction to MSATS	MSATS CATS Hints and Tips and NMI Discovery
Technical Guide to MSATS	NMI Procedure
Guide to MSATS Reports	Service Level Procedure: Metering Provider (MP) Services
Guide to MSATS Web Portal	Service Level Procedures: Embedded Network Manager Services
MSATS Ombudsman Enquiry User Interface Guide	Service Level Procedure: Metering Data Provider (MDP) Services
	NMI Standing Data Schedule