

IESS Working Group

Meeting 3 29 JUNE 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.





#	Approx. Time	Topic	Presenter/s
1	10:00-10:10	Welcome	Emily Brodie, AEMO
2	10:10-10:15	Notes, actions and feedback from previous WG meeting	Ulrika Lindholm, AEMO
3	10:15-10:25	Project update	Emily Brodie, AEMO
4	10:25-10:35	Procedures update	Gareth Morah, AEMO
5	10:35-10:45	HLD/implementation strawperson update	Carla Ziser, AEMO
6	10:45-11:00	Introduction to IESS industry readiness	Emily Brodie, AEMO
7	11:00-11:15	Industry risks and issues register	Emily Brodie, AEMO
8	11:15-11:25	Forward Plan	Ulrika Lindholm, AEMO
9	11:25-11:30	General questions and close	Emily Brodie, AEMO

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

Please note that this meeting will be recorded for the purpose of note taking, and not for publication.



2. Notes, actions and feedback from previous WG meeting



Notes, actions and feedback from previous WG meeting (25th May)

Item#	Action	Responsible	Status
2.1	IESS WG to provide feedback on the proposed approach to considering an IESS implementation amendments rule change.	WG members	Closed. No feedback received.
2.2	IESS WG to advise of any potential implementation amendments on an ongoing basis.	WG members	Standing item.
2.3	AEMO to circulate the WDM HLD document for reference	AEMO	Closed. Circulated to WG on 31 May. <u>Link to document</u> .



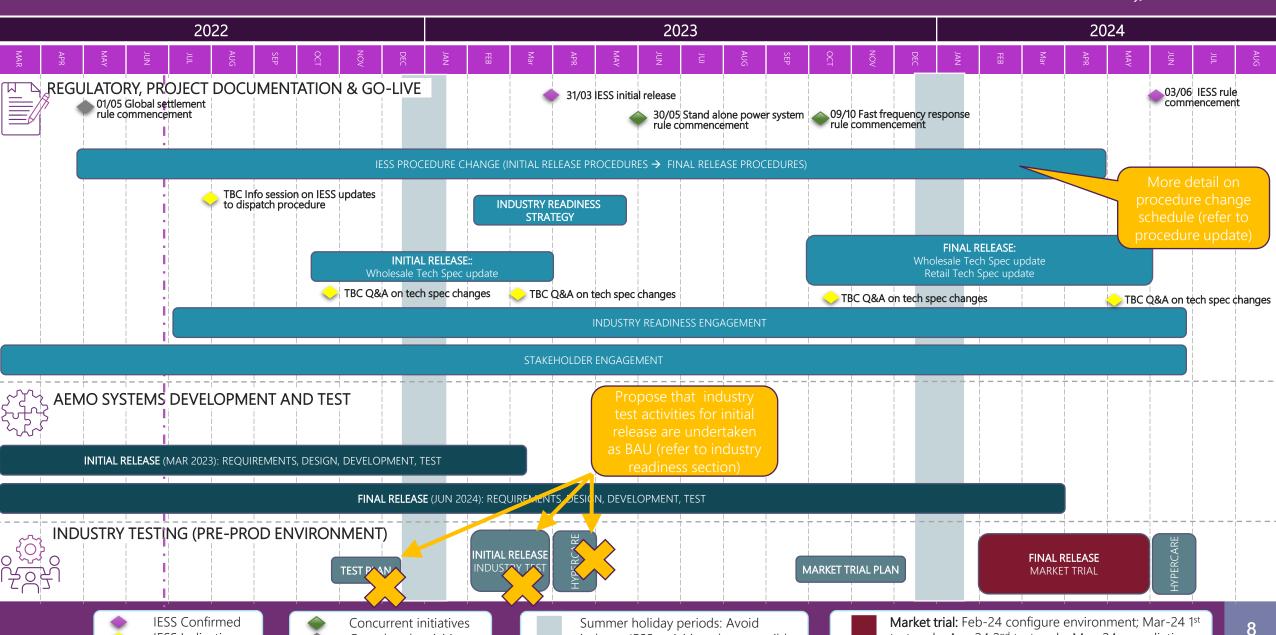
3. Project update

IESS – Indicative Industry Timeline

Completed activities

IESS Indicative





industry IESS activities where possible

test cycle; Apr-24 2nd test cycle; May-24 remediation



5. HLD/implementation strawperson update





- HLD update will reflect changes since initial publication and stakeholder feedback
- Strawperson has been developed to align with the HLD and provide additional information on participant impact. It identifies:
 - Scope of changes for systems and procedures
 - Affected participants
 - Type and extent of impact to participant systems.
- The two documents aim to:
 - Guide participants through the scope of the changes
 - Allow participants to start planning on the likely system changes needed.



Main IESS changes

CHANGE	AFFECTED PARTICIPANTS	READINESS CONSIDERATIONS	TIMING
Integrated Resource Provider (IRP) category: Integrated resource system Bidirectional units	 Current and future bi-directional system participants Participants that analyse AEMC operational data 	Bidding format change	Effective 03-Jun- 24 with a grace period for existing IRPs
Aggregate dispatch conformance (optional for participants, will available to systems with two or more technologies behind the connection point)	Participants choosing to adopt a conformance model	 Understand the new model Includes conformance flag in dispatch instruction Develop required control systems 	Available from initial release 31-Mar-23
Small generating units can provide FCAS (optional for participants)	 Small generation aggregators (SGA) choosing to provide FCA 	Apply for contingency FCAS (optional) S	Available from initial release 31-Mar-23
 Settlement based on gross energy Non-energy cost recovery Scheduled load carve outs UFE calculations Embedded networks 	All market participants	 Understand new settlement data model Update customised reports as required 	Final release 03-Jun-24
 Aggregation of small resources by IRP Transition MSGA to IRP Act as FRMP (retailer) 	 MSGAs Participants seeking to provide retail services under IRP 	 Work with AEMO to transition to IRP Understand requirements for MSATS access 	Final release 03-Jun-24



Consultation approach

ACTION	TIMING	STATUS	
Publication of Draft High Level Design	16 Dec 2021	Complete	
Stakeholder Q&A Forum	4 Feb 2022	Complete	
Written stakeholder feedback on Draft HLD	12 Feb 2022	Complete	
Engagement through the IESS Working Group	Ongoing	In progress	
Publication of Draft Implementation Strawperson and HLD update	Early July	Not started	We are here
Written stakeholder feedback on Draft Implementation Strawperson	12 Aug 2022	Not started	
Publication of Final Implementation Strawperson	1 Sep 2022	In progress	

AEMO will release an issues paper on aggregated dispatch conformance in July, allowing stakeholders to provide collective feedback on the High Level Design, Strawperson and issues paper.



4. Procedures update





- Timelines not yet settled for:
 - Retail and B2B
 - Registrations (classifying a DC-coupled system as a Semi-Scheduled unit)
- Timelines reflect the recent rule change to the standard NER 8.9 consultation process
- All dates are indicative





Connections and Registrations:

Connections	
Consultation Type	M&A
Change marked procedure published	1/11/2022
Feedback Due	15/11/2022
Procedure Published	29/11/2022

Registration procedures TBD



Important Dates (cont.)

Operations and Dispatch

Dispatch Procedure	
Consultation Type	Not required*
Change marked procedure published	21/7/2022
Feedback Due	12/8/2022
Procedure Published	1/9/2022

^{*}Information session planned for 1 week after publication of change marked procedure.





Forecasting and Planning

Operations Forecasting	
Consultation Type	M&A
Change marked procedure published	22/8/2022
Feedback Due	5/9/2022
Procedure Published	19/9/2022

Reliability & Operability Forecasting*	
Consultation Type	M&A
Change marked procedure published	7/8/2022
Feedback Due	21/8/2022
Procedure Published	4/9/2022

^{*10} docs, some will be updated via standard annual review processes



Important Dates (cont.)

Settlements

Carbon Dioxide Equivalent Intensity Index Procedures	
Consultation type	Standard
Issues paper published	5/9/2022
Submissions due	3/10/2022
Draft determination published	14/11/2022
Submissions due	12/12/2022
Final determination published	20/12/2022

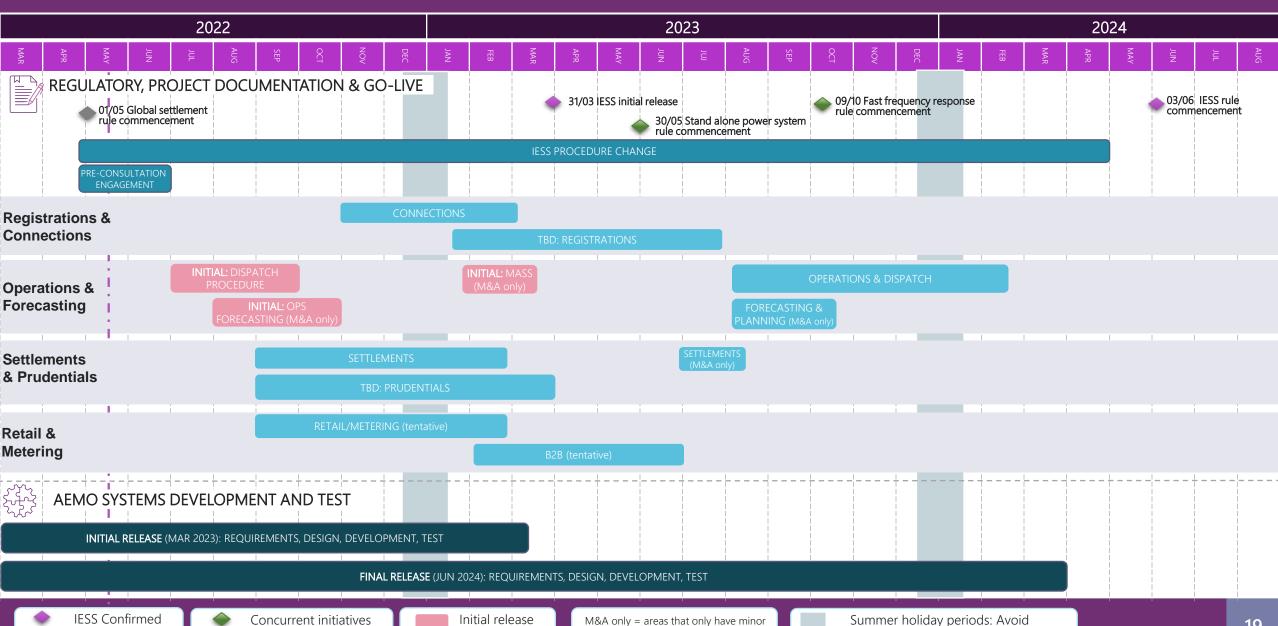
IESS – INDICATIVE IESS procedure change timeline

Final release

IESS Indicative

Completed activities





& administrative changes to procedures

industry IESS activities where possible



6. Introduction to IESS industry readiness





Main IESS changes canvassed above (slide 11)

	Initial release 31-Mar-2023	Final release 03-Jun-2024
Scope	SGAs can provide FCAS; aggregated dispatch conformance for hybrids	IRP registration; BDU classification; BDU bidding; new non-energy cost recovery settlement processes
AEMO's readiness	Required by the release date	Required by the release date
Participant readiness	Optional participation any time from the release date	Affected participants need to be ready for mandatory changes by the release date (or by the end of the grace period)
Note	 Participant numbers uncertain AEMO will monitor likely uptake for 'day one' 	 Participants may choose to update any customised reports at any time e.g. settlement reconciliation, dispatch analysis May need to consider aligning IESS readiness activities with other NEM 2025 program readiness activities.



Proposed approach to IESS industry readiness

Release	Approach	Comments
Initial release 31-Mar-23	No additional industry readiness support above BAU	 IESS initial release does not require cross-industry coordination Optional participation, only AEMO needs to be ready BAU processes (including supporting documentation and access to Pre-Production as appropriate) will be in place for: SGAs participating in FCAS Hybrid plant opting for aggregated dispatch conformance AEMO's Support Hub is available for participants 24/7 AEMO will monitor participant activity in the lead up to the initial release. If there is an increase in readiness activity during this time, propose reviewing the industry readiness approach in consultation with the IESS WG.
Final release 03-Jun-24	 Develop industry readiness strategy in consultation with the IESS WG (Feb – May 2023) Develop market trial plan (Sep – Dec 2023) 	 BDU bidding and new settlement processes start on 03-Jun-24 Coordinated market trial needed to test new bidding and settlement processes Supporting processes and documentation needed for: Reclassification to BDUs Transitioning market small generation aggregators to IRPs

Discussion



- How appropriate is this proposed industry readiness approach?
- What changes would improve the approach?

Please provide **initial feedback** on the IESS industry readiness approach to <u>IESS@aemo.com.au</u> by Fri 15 Jul 2022.

Feedback will form part of a future IESS WG discussion on readiness, TBC later this year.



7. Industry risks and issue register

Context



- As the IESS project moves deeper into implementation, risks and issues will emerge.
- The IESS industry risks and issues register is being introduced to effectively communicate, monitor and manage industry risks and issues.
 - This register is separate to AEMO's internal register for managing its own project risks.

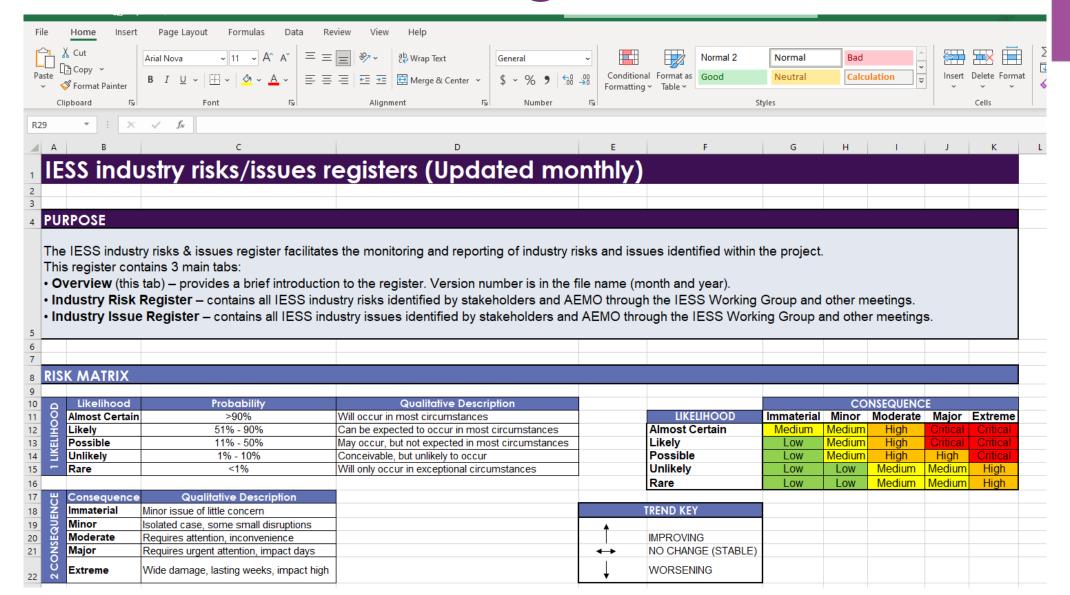


Proposed approach

DATE	ACTION	RESPONSIBILITY
Wed 29 Jun 2022 (IESS WG meeting #3)	AEMO to develop for IESS WG's consideration:Strawperson register (attached)Proposed risk management regime (next slide)	AEMO
Fri 15 Jul 2022	IESS WG to provide feedback on:Strawperson registerProposed risk management regime	IESS WG
At IESS WG meetings and as required	 AEMO to: Issue updated register that reflects feedback (where appropriate) Manage register by monitoring and updating risks/issues for duration of project. 	AEMO



Overview of draft register





AEMO

*Full draft IESS risks and issues register included as part of the meeting pack

4 A	В	С	D	E	F	G	н	1	J	к	L	м	N	0	P	Q	R
Inte	Integrating Energy Storage Systems (IESS) Industry Risks																
2 🔽	Work Stree	Title	Description	Catego	Dat∧ rais ▼	Likelihoo	Consequenc	Impact Dat ▼	Rish ratin ▼	Mitigation	Raised b	Risk Own	Actions	Resides! likeliho ▼	Resides Limp ▼	Residue! risk ratii ▼	Sta JT
										AEMO has implemented a program management and reporting framework to monitor work stream deliverables.			AEMO and IESS WG to provide timely information on any potential delays				
1	Program	AEMO business and operations not ready for initial IESS release on 31 March 2023	# AEMO is not ready for the initial IESS release, then there may be a delay to: - SGAs providing ancillary services - Hybrid plant accessing aggregated dispatch conformance	AEMO readiness	Jun-22	2 Unlikely	Moderate	31-Mar-22	Medium	If deliverables are at risk, AEMO to develop and discuss remediation plan with IESS WG.	AEMO	AEMO	IESS WG to assess impact of delay to various participant types.	Rare	Moderate	Medium	Open
3										AEMO to implement remediation plan.			AEMO to regularly engage with and monitor stakeholder IESS intentions.				
			If AEMO is not ready for the initial IESS release, then there may be a delay to one or more of: - BDU bidding							AEMO has implemented a program management and reporting framework to monitor work stream deliverables.			AEMO and IESS WG to provide timely information on any potential delays				
2	Program	AEMO business and operations not ready for final IESS release on 03 June 2024	BDU and Integrated Resource System (IRS) inclusion in forecasting processes settlement processes based on gross consumed or gross sent-out energy, including updated non-energy cost recovery IRP registrations and market fee recovery	AEMO I readiness	Jun-22	2 Unlikely	Major	3-Jun-24		If deliverables are at risk, AEMO to develop and discuss remediation plan with IESS WG.	AEMO		IESS WG to assess impact of delay to various participant types.	Rare	Major	Medium	Open
										AEMO to implement remediation plan.			AEMO to regularly engage with and monitor stakeholder IESS readiness.		<u> </u>		
3	Testing	Not enough participants or participant types for	If there are too few participants or participant types ready to take part in market trials, then: - Industry's ability to interact with AEMO's market systems may be inadequate during the indust market trial period.	ry Testing	Jun-22	Unlikely	Minor	3-Jun-24	Low	AEMO to regularly engage with and monitor stakeholder IESS interest in participating in market trials.	AEMO	AEMO	AEMO to regularly engage with and monitor stakeholder IESS interest in participating in market trials.	Rare	Minor	Low	Open





Proposed IESS risk management regime

Regular evaluation of risks and issues at IESS WG meetings (or out of session when necessary)

TIMING	ACTIVITY	RESPONSIBILITY
Prior to monthly IESS WG meeting	 AEMO to: Seek feedback (internally and from IESS WG) on existing and new risks/issues Consolidate and distribute marked up risk/issues register as part of meeting pack 	AEMO
At monthly IESS WG meeting	 IESS WG to review and discuss by exception: New or existing risks/issues that have been identified as requiring consideration Current issues "High" or "critical" risks: Check probability and impact Discuss additional mitigations Discuss actions 	IESS WG
After monthly IESS WG meeting	 AEMO to: Update to update register considering input from IESS WG Post updated register on its website 	AEMO

Discussion



- How appropriate is this proposed risk management approach?
- What are the gaps?
- What changes would improve the approach?

Please provide **feedback** on this risk register and the risk management approach to IESS@aemo.com.au by Fri 15 Jul 2022.



8. Forward plan

Forward plan – IESS Stakeholder engagement,

	-							
	JUNE 2022	JULY 2022	AUG 2022	BEYOND				
Monthly meeting	 Mthly meeting (today) Draft implementation strawperson discussion High level introduction to IESS industry readiness Introduction to and discussion on IESS industry risks and issues register 	Mthly meeting Dispatch procedure Discussion of potential scope and timing of rule change	 Mthly meeting Debrief on ERCF discussion (if appropriate) Potential discussion on procedure changes relating to settlement, prudentials, forecasting and planning 	 Mthly meetings Debrief on feedback received on Dispatch procedure and Implementation Strawperson Ongoing procedure consultations Discussion on approach to updating Technical Specifications 				
Other IESS engagement	Continued early engagement on non-rules consultation on Dispatch procedure	 HLD update & Draft external strawperson published (late June/early July) Dispatch procedure Issues Paper published (~21 July) Dispatch procedure Stakeholder Information Session (~26 July) Industry feedback on Strawperson register and proposed risk management regime (15 July) Discussion on retail procedures to Electricity Retail Consultative Forum (ERCF) 	 Forecasting and planning minor and administrative changes consultation begins Industry feedback due on draft strawperson (12 August) Industry feedback due on Dispatch procedure Issues Paper (12 August) Tentative cont'd: phone calls to WG members to understand initial thinking on readiness 	 Publish final strawperson (1 September) Publish final Dispatch procedure (1 September) IESS test plan development for initial release (October) 				

Tentative: phone calls to WG members to understand initial

thinking on readiness

Stakeholder enquiries may be sent to the IESS mailbox:

IESS@aemo.com.au



9. General questions and close



IESS project contact



iess@aemo.com.au



https://aemo.com.au/initiatives/majorprograms/integrating-energy-storage-systems-project



For more information visit

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.





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.