

NEM Reform Industry Testing Working Group

Meeting #15
30 May 2024



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 and present.**

Agenda

#	Time	Topic	Presenter
1	10:30-10:35am	Welcome	Chris Fleming
2	10:35-10:40am	Actions & Feedback from Previous Meeting	Chris Fleming
3	10:40-10:45am	Pre-Prod & PDSE Activities & Timings	Chris Fleming
4	10:50-11:10am	IESS June 2024 Market Trial <ul style="list-style-type: none">• Market Trial review• Production Support Model• Production Implementation• Participant Market Trial Feedback	Chris Fleming / Amit Kumar
5	11:10-11:15am	September 2024 RMI Release	Chris Fleming
6	11:15-11:20am	December 2024 FPP NFO Release	Chris Fleming
7	11:20-11:25am	General Questions and Other Business	Chris Fleming
8	11:25-11:30am	Upcoming Engagements <ul style="list-style-type: none">• Upcoming Meetings	Chris Fleming

Appendix A: Competition law meeting protocol
Appendix B: Industry Testing Approaches

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

2. Actions & Feedback from Previous Meeting

Actions & Feedback from Previous Meeting

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

#	Topic	Action	Responsible	Status
14.1	Market Trial Schedule	AEMO to circulate the latest version of the Market Trial schedule prior to the commencement of the Market Trial	AEMO	Closed

The latest meeting minutes and materials are available on the [NEM Reform Industry Testing Working Group](#) webpage.

3. Pre-Prod Refresh Activities & Timings (short term)

Pre-Prod / PDSE Key dates



Proposed Pre-prod dates and outage timings

- Next pre-prod refresh is scheduled for 1st July to 5th July to support the September 2024 release (Retail refresh only).
- Subsequent Pre-prod Wholesale and Retail refresh is planned for late Q1 2025 (date TBC) to support FPP (FO) Industry Test.

Data Model 5.4



- Data Model 5.4 to be available in Pre-Prod from 25th October.

PDSE

- Access to PDSE will be removed from Fri 07 Jun 2024

4. IESS June 2024 Market Trial

Integrating Energy Storage Systems (IESS)

Implementation date	Change	Description
Fri 31 Mar 2023	 Small generation aggregators (SGA) providing FCAS	Complete. Aggregators of small generating and storage units can now provide ancillary services (if they choose to do so).
Wed 09 Aug 2023	 Aggregated dispatch conformance (ADC)	Complete. <ul style="list-style-type: none"> Aggregate Systems can choose to register for ADC ADC provides an Aggregate System with the flexibility to conform to its dispatch instructions by dispatching energy at the connection point from any combination of its units (with some restrictions), rather than individually on a unit-by-unit basis Includes minor changes for Battery Energy Storage Systems (BESS). AEMO will temporarily be using the ADC mechanism to monitor net dispatch conformance for a BESS across its scheduled generating unit/scheduled load pair, as a Target Aggregate.
Sun 02 Jun 2024	IESS retail and settlement changes	Significant changes to the calculation method to be used for Non-Energy Cost Recovery (NECR): <ul style="list-style-type: none"> Recovery calculations are to consider the gross (consumption separate from generation) energy amounts of all participants, rather than current approach using net energy (generation – consumption) of specific participant types Major settlements database structure changes are required to enable the new calculations, these changes will flow into the Data Model and affect: <ul style="list-style-type: none"> Participant reconciliation and reporting activities AEMO data provision Embedded network management changes to ensure that the parent has the appropriate gross energy volumes available for settlement.
Sun 02 Jun 2024 (IRP) Mon 03 Jun 2024 (BDU)	Registration, bidding and dispatch changes	<ul style="list-style-type: none"> Introduction of Integrated Resource Provider (IRP) participant type Bidirectional unit (BDU) bidding and dispatch, with impacts for BDU participants and bidding system vendors/developers.

- On 02 Dec 2021, the AEMC made a Final Determination on the IESS rule. The change seeks to better integrate storage and aggregate systems into the National Electricity Market (NEM).
- IESS rule comprises of 4 distinct high-level changes - the first 2 have been implemented and delivered.
- IESS industry testing and market trials plan relates to the IESS June 2024 rule commencements.
- IESS Industry Test / Market Trial is now complete with no outstanding issues.

IESS market trial update



Scope: Pilot testing plus 3 main phases, supported by daily stand-up meetings

PHASE	TIMING	STATUS	COMMENTS
Pilot: BDU cutover	Mon 08 Apr to Tue 16 Apr	✓ Complete	Pilot BESS successfully cutover to BDU in pre-production.
Phase 1: Standing data	Wed 03 Apr to Fri 12 Apr	✓ Complete	Retail & registration standing data successfully updated.
Phase 2: Settlements – NECR changes	Wed 03 Apr to Wed 08 May	✓ Complete	<ul style="list-style-type: none">• Some defects identified and remedied.• Some discrepancies identified due to the timing of AEMO and Participant refresh timings.• No outstanding defects.
Phase 3: BDU cutover	Fri 19 Apr to Fri 24 May	✓ Complete	Selected participant transition from 2DUID to 1DUID: <ul style="list-style-type: none">• Wed 01 May: Simulated cutover #1 of 6 BESS to BDU successfully completed.• Wed 15 May: Simulated cutover #2 of 3 BESS to BDU successfully completed.• BDU bidding and dispatch: No outstanding defects• Learnings from IESS market trial will be captured and worked through with industry prior to BDU production cutovers.

Hypercare and post go-live support



POST GO-LIVE SUPPORT ACTIVITY

Post go-live support

- Post go-live Q&A
 - Tue 04 Jun 2024: Supports NCC and IRP changes
 - Wed 19 Jun 2024: Follows the first Prelim Settlement run after go-live (14 June)
- Please follow BAU processes and raise system issues to support.hub@aemo.com.au
- Hypercare will be in place until 28 June 2024 to provide heightened support if any issues emerge because of the IESS June 2024 release.

BDU transition

- Mid-June TBC: BDU readiness focus group session to:
 - Debrief on learnings from Phase 3 of IESS market trial
 - Prepare for BDU cutovers in production
- AEMO will maintain the BDU transition schedule
- Participants are requested to inform AEMO of any changes required to their allocated transition dates as soon as practicable.
- BDU transition and cutover enquiries and communications to be via NEMReform@aemo.com.au

IESS mailbox

- IESS mailbox IESS@aemo.com.au will remain open for the IESS hypercare period only, noting that:
- BAU enquiries to be via support.hub@aemo.com.au
 - NEM reform program queries to be via NEMReform@aemo.com.au
 - BDU transition and cutover enquiries and communications to be via NEMReform@aemo.com.au

AEMO Production deployment updates

- Retail (MSATS) → Sun 12 May → Successfully deployed
- Registrations → Wed 15 May → Successfully deployed
- Settlements & Prudentials → Sat 18 May → Successfully deployed
- Dispatch → Wed 22 May → Successfully deployed
- PMS → Fri 31 May
- Bidding Service → Mon 3 Jun

PMS: Portfolio Management System

Market Trial Participant Feedback

- AEMO is seeking feedback from Participants on all aspects of the Market Trial including what went well and improvement areas.
- Areas of feedback include (but are not limited to)
 - Test planning
 - Test execution
 - Stakeholder engagement and communications
 - Use of Practitest
 - Response to reported defects and questions
 - Effectiveness of daily standups
- With the Implementation of the IESS June release AEMO is also seeking feedback on the usage and effectiveness of test environments during participant development and testing
- Additional feedback can be provided via NEMReform@aemo.com.au until 12th June

5. Retail Market Improvements (RMI)

Retail Market Improvements (RMI)

- Development is underway on RMI.
- Work on the Industry Test Strategy has commenced and will be presented at the June ITWG.
- Two Industry Test windows
 - Net System Load Profile (ICF_072).
 - Beginning Sept to end Sept 2024
 - Similar in scope and structure to last years 5MLP Industry Test
 - The new methodology will become effective in production from **29 Sept 2024**
 - Substitution Types Review (ICF_054)
 - Beginning Sept to end Oct 2024
 - Participants encouraged to test in Sept 2024 due to higher levels of support
 - Anticipate Bilateral testing between MDPs and FRMPs, ENLRs and LNSPs
 - Changes to the Substitution Types and Reason Codes will become effective in production from **4 Nov 2024**
- Production deployment scheduled for 29 September for both ICFs
- September Technical Specification has been drafted [MSATS – Technical Specification – September 2024](#).

6. Frequency Performance Payments (FPP - NFO)

Frequency Performance Payments (FPP)

- AEMO development in progress and due to be completed at the end of June.
- Work on the Industry Test Strategy for the Non-Financial Operation phase has commenced and will also be presented at the June ITWG.
- Industry Test for the Non-Financial Operation (NFO) phase scheduled to commence 25 October 2024
- Market Trial for the Financial Operation (FO) phase scheduled to commence 17 March 2025
 - Pre-prod refresh will be required in Q1 2025, prior to this Market Trial
- FPP Reporting Data model, EMM DM 5.4, was published 15 April 2024, see the [AEMO Tech Spec Portal](#).

7. General Questions and Other Business



NEMReform@aemo.com.au



[NEM Reform Industry Testing Working Group](#)



8. Upcoming Engagements

Upcoming Engagements

May						
M	T	W	T	F	S	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	31		

June						
M	T	W	T	F	S	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

July						
M	T	W	T	F	S	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	31				

August						
M	T	W	T	F	S	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	31	

NEM Reform Program Committees/Forums

- Executive Fourm
- Reform Delivery Committee
- Reform Delivery Committee Collaborative Workshop
- Program Consultative Forum
- Electricity Wholesale Consultative Fourm
- Implementation Forum
- Industry Testing Working Group

NEM Reform Briefings

- NEM Reform Program – General Stakeholder & Implementation Roadmap Briefing
- Industry Briefing: Accelerating Smart Meter Deployment – Draft High Level implementation design.

Other Forums

- Electricity Retail Consultative Forum

Other

- National Public Holiday
- State/Territory Public Holiday

Appendix A: Competition law meeting protocol

AEMO Competition Law - Meeting Protocol

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

Participants in AEMO discussions **must**:

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

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

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

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

Appendix B: Industry Testing Approaches

Approaches to Industry Testing

AEMO provides opportunity for Industry participants to test their updated systems and processes prior to release of AEMO updates into production.

The approach to the level of co-ordination, integrated planning and scenario management that is provided is dependent on a number of factors including:

- Impact to end-to-end participant process flows
- Ability of impacted participants to successfully test changes without AEMO or other participant co-ordinated activity
- Number and range of participants impacted by release

The approaches to Industry testing are described as:

Type of market testing	Description	Example
Industry testing	Self-testing of functionality such as connectivity, and/or coordinated multi-party testing of functional scenarios	Testing a change request (CR) or processing a reallocation or bid submission
Invitation industry testing	Coordinated testing of business process scenarios with a select number or subset of participants with systems ready for testing.	Testing NMI transfer Process
Market trials	Coordinated multi-party end-to-end testing of business process scenarios	Meter exchange involving CRs, service orders and 5-minute meter reads

In all cases involvement in testing is voluntary on participants behalf.

Agreement on approach to the type of industry testing for a release is conducted through the Implementation forum and Industry Test Focus Group along with support arrangements during the test period.



For more information visit

aemo.com.au