

# NEM Reform Industry Testing Working Group

Meeting #11  
30 November 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 and present.**

# Agenda

| # | Time          | Topic   | Presenter                      |
|---|---------------|---|--------------------------------|
| 1 | 10:30-10:35am | <b>Welcome</b>  | Chris Fleming                  |
| 2 | 10:35-10:40am | <b>Actions &amp; Feedback from Previous Meeting</b>   | Chris Fleming                  |
| 3 | 10:40-10:45am | <b>November Release Updates</b>   | Chris Fleming                  |
| 4 | 10:45-11:00am | <b>March 2024 Metering Exemptions Testing Approach</b>  | Chris Fleming                  |
| 5 | 11:00-11:15am | <b>IESS June 2024 Market Trial Planning Approach</b>  | Greg Minney / Michael Clements |
| 6 | 11:15-11:20am | <b>NEM Reform Program Website Uplift</b>  | Greg Minney                    |
| 7 | 11:20-11:25am | <b>Upcoming Engagements</b> <ul style="list-style-type: none"><li>Stakeholder Sentiment Survey</li></ul>                        | Lenard Bayne<br>Greg Minney    |
| 8 | 11:25-11:30am | <b>General Questions and Other Business</b> <ul style="list-style-type: none"><li>ITWG representation (Verbal update)</li></ul> | Greg Minney                    |

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 |
|----------|---|--|-------------|--------|
| 10.5.0.1 | IESS June 2024 Market Trial Planning Approach | AEMO to confirm if market calculations won't change and will be more of a regression test.             | AEMO        | Open   |
| 10.5.0.2 | IESS June 2024 Market Trial Planning Approach | AEMO to provide link to the survey.  | AEMO        | Closed |
| 10.7.0.1 | General Questions and Other Business          | AEMO to confirm indicative timing for the participant development support environment to be available. | AEMO        | Closed |

# 3. November Release Updates

# MSDR Update

- MSDR November Release changes are now live in production and there are no outstanding issues
  - Changes relate to the compliance holiday ending for some MSATS Standing Data attributes and removal of UnstructuredAddress in NMI Discovery, CATS/MSATS C4 & C7 reports and the MSATS Snapshot Report.

# LCCD Update

- MSATS LCCD obligations commenced on 1/11/2023
- 2 issues raised and are under investigation
  - Completion of a CR 1030 is populating the LCCD field with the Proposed Date instead of the Actual Change date.
  - Validation required to confirm if current FRMP is still the FRMP on completion of CR5057.



# 3. March 2024 Metering Exemptions Testing Approach

# Metering Exemptions Industry Testing Update

- Informal Testing

- Commenced on 04/10/23 and will continue thru to the end of January 2024.
- Gives participants an opportunity to shakedown their application changes and new business processes supporting the Metering Exemption automation.
- Q&A sessions are now running weekly on Thursdays to 7/12.
- r44 B2M schema to be deployed in preprod on 5/12.
- No significant issues raised to date.
- Two participants have successfully created exemptions in preprod to date.

- Formal Testing

- Will run from 29/01/24 to 1/03/24.
- Testing will not be structured but MCs are encouraged to ensure that they can manage their Metering Exemption processes via the new UI or by the new APIs.
- Participants can confirm receipt CR5101 notifications.
- AEMO will support the formal testing by advancing the statuses of exemptions on request.
- Twice weekly Q&A sessions will resume in late January.

# Metering Exemptions Industry Testing Update

- Industry Test Requirements
  - API users will need to obtain TLS Certificates (Note: Pre-Prod and Prod have separate TLS Certificates) [TLSCertificateManagement \(aemo.com.au\)](https://aemo.com.au/TLSCertificateManagement)
  - A selection of production metering exemption data has been loaded into preprod for each MC. Additional data, based on existing production exemptions, can be loaded on request by email to [NEMReform@aemo.com.au](mailto:NEMReform@aemo.com.au)
  - Participants who can't see the Metering Exemption functionality in MSATS or the Markets Portal need access to be granted **Meter Exemptions** access to at least 1 of their MSATS role assignments by their MSATS PA (Participant Administrator)
  - Further links and FAQs for Metering Exemptions testing can be found in the Weekly March release Q&A packs. If you aren't currently receiving these, you can request them by emailing [NEMReform@AEMO.com.au](mailto:NEMReform@AEMO.com.au)
- Draft Go-live plan for March 2024 due on 8/01/2024, final version due 6/02/2024.
- Production effective date for Metering Exemptions 4/03/24.

# Metering Exemptions Industry Testing Update

Updating the B2M schema to r44 in MSATS

- There is a potential issue in MSATS when stopping the outbox. If the Please Stop button is pressed more than once it can result in the return of incorrect MDM schema documents. Participants are requested to press the Stop Button once only.

**Participant aseXML Schema**

| B2M transaction group | Receiving schema version | Receiving protocol |
|-----------------------|--------------------------|--------------------|
| CATS                  | LATEST                   | FTP                |
| NMID                  | LATEST                   | FTP                |
| MDMT                  | LATEST                   | FTP                |

Outbox Status: RUNNING                      0 zip files in outbox

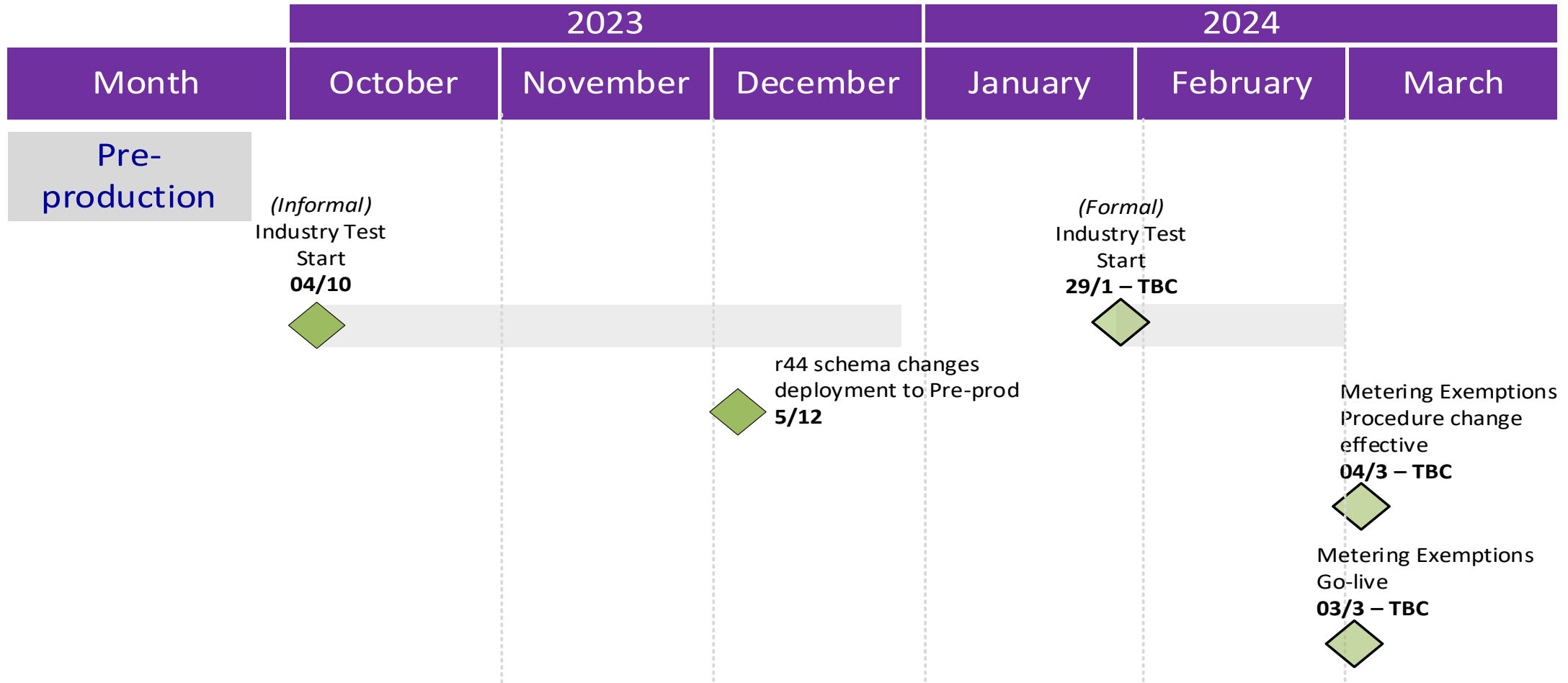
Refresh:    click to see number of outstanding zip files from AEMO and/or change of Outbox Status to Empty if Stopped

Please Stop:    click to stop receiving of zip files from AEMO so you can change aseXML Version when Empty

| aseXML schema version | Transforms applied |              |
|-----------------------|--------------------|--------------|
| Superseded            | r42                | r43 to r42   |
| Current or Latest     | r43                | No transform |

- A fix for this issue is planned to be deployed in the January MSATS BAU release.

# Metering Exemptions Industry Test Timeline



# 5. IESS June 2024 Market Trial Planning Approach









# Integrating Energy Storage Systems (IESS)

| Implementation date                            | Change  | Description  |
|--|---|--|
| Fri 31 Mar 2023                                | Small generation aggregators (SGA) providing FCAS | <b>Complete.</b><br>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)             | <b>Complete.</b> <ul style="list-style-type: none"> <li>Aggregate Systems can choose to register for ADC</li> <li>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</li> <li>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.</li> </ul>  |
| 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"> <li>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</li> <li>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"> <li>Participant reconciliation and reporting activities</li> <li>AEMO data provision</li> <li>Embedded network management changes to ensure that the parent has the appropriate gross energy volumes available for settlement.</li> </ul> </li> </ul> |
| Sun 02 Jun 2024 (IRP)<br>Mon 03 Jun 2024 (BDU) | Registration, bidding and dispatch changes        | <ul style="list-style-type: none"> <li>Introduction of Integrated Resource Provider (IRP) participant type</li> <li>Bidirectional unit (BDU) bidding and dispatch, with impacts for BDU participants and bidding system vendors/developers.</li> </ul>   |

- 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.
- Final [Industry Testing and Market Trial strategy](#) has been completed and published, in consultation with industry.

# IESS June 2024 Industry Test and Market Trials Planning

- Due to the draft plan is due on the 19/01, and this the only ITWG session prior, we are seeking feedback on the slides we are going to present. Indicative dates and participant considerations of the scope/objectives for each test phase will be provided in the next slides. AEMO is asking feedback from participants on this which can be sent through the following channels:
  - [NEMReform@aemo.com.au](mailto:NEMReform@aemo.com.au) & [IESS@aemo.com.au](mailto:IESS@aemo.com.au)

| 2023                                |  | 2024   |   |  |   |
|-------------------------------------|--|--|---|--|---|
| November                            | December   | January  | February  | March  | April   |
|                                     | <br><b>30/11</b><br>Nov ITWG  | <br><b>24/1</b><br>Jan ITWG   | <br><b>29/2</b><br>Feb ITWG    | <br><b>28/3</b><br>Mar ITWG   |   |
| Industry Test and Market Trial Plan |  | <br><b>19/1</b><br>Draft Plan | <br><b>2/2</b><br>Consultation | <br><b>16/2</b><br>Final Plan | <br><b>3/4</b><br>Completion |
| Month                               | Test Planning Activities   |  |   |  |   |
| November-December                   | <ul style="list-style-type: none"> <li>• Develop test plan which will include following: test phase objectives, detailed scope of testing, confirm pre-requisite activities, entry/exit criteria, test scenario approach and schedule dates, data management (including data refresh timings), Test phase participation (invitation for BDU and general sign-up), test reporting requirements</li> </ul> |  |   |  |   |
| January                             | <ul style="list-style-type: none"> <li>• Draft test plan to publish on 19/1. ITWG session will run through details of the plan.</li> </ul>   |  |   |  |   |
| February-March                      | <ul style="list-style-type: none"> <li>• ITWG for Feb-Mar to work through test/trial preparation activities aligned with the plan</li> <li>• Develop test workbooks, setup test scripts in test tool (Practitest)</li> <li>• Test/Trial preparation activities completion by 3/4</li> </ul>  |  |   |  |   |



# IESS June 2024 Industry Test and Market Trials Test Scope

- From the [Industry Testing and Market Trial strategy](#), the scope of testing was divided into 3 phases as detailed in the subsequent table.
- Adjustments have been made to the timings for each of the phases based on previous feedback.
- A day-to-day draft market trial calendar is in the process of being created for participants to review.

| Test Phase   | Timing                | Test Scope   | Participants   |
|--|-----------------------|--|--|
| <b>Phase 1</b> – IESS standing data changes              | TBA                   | <ul style="list-style-type: none"> <li>• Test registration changes</li> <li>• Test metering standing data changes and related changes</li> <li>• Test that impacted applications can accommodate retrospective changes for dates prior to cut over date</li> <li>• Confirm cutover / commencement processing</li> </ul>  | FRMPs, market generators, market customers, IRPs, SGAs, Market ancillary service providers, network service providers, metering service providers, embedded network managers |
| <b>Phase 2</b> – Settlements & Prudential Calculations   | 2 April – 24 May 2024 | <ul style="list-style-type: none"> <li>• Population of EMMS Data Model 5.3 that will affect participant reconciliation and reporting activities, and AEMO data provision</li> <li>• Confirm existing Net calculation methodology and reporting is not impacted for periods up to 02 June 2024</li> <li>• Confirm shift to new gross calculation methodology and reporting is reflected in settlements for periods post 02 June 2024</li> <li>• Execute a mix of daily, interim, final and revision bill runs</li> <li>• Provide participant RM Reports to support participant settlement reconciliation processes</li> <li>• Provide participants confidential settlement and billing reports for executed settlement runs</li> <li>• Confirm the Direction and Ancillary Service recovery changes under the new NECR logic</li> <li>• Confirm the market fee calculations under the new database structure</li> <li>• Confirm participants can access information in prudential dashboard and forecast dashboard under new methodology</li> </ul> | FRMPs, market generators, market customers, IRPs, SGAs, Market ancillary service providers, network service providers, metering service providers, embedded network managers |
| <b>Phase 3</b> – Bidirectional Unit bidding and dispatch | TBA                   | <ul style="list-style-type: none"> <li>• Confirm ability for 1 DUID BDU to bid and be dispatched</li> <li>• Confirm existing bidding and dispatch functionality still works for 2 DUID BDU arrangement</li> <li>• Test transition of 2DUID BDU to 1DUID BDU</li> </ul>   | Market Generations (Battery – Gen Only), Market Customers (Battery – Load Only)  |

# IESS June 2024 Industry Test and Market Trials Summary – basis for Test Plan Draft

| Test Phase   | Timing                | How we are testing proposed scope  | Participants   |
|--|-----------------------|--|--|
| <b>Phase 1</b> – IESS standing data changes              | TBA                   | <ul style="list-style-type: none"> <li>• Testing cutover process of SGAs to IRP and de-generators using the bulk data tool.</li> <li>• Participants confirming Registration &amp; Market Standing Data Changes are reflected correctly. This will include New Classification Code (NCC).</li> </ul>  | FRMPs, market generators, market customers, IRPs, SGAs, Market ancillary service providers, network service providers, metering service providers, embedded network managers |
| <b>Phase 2</b> – Settlements & Prudential Calculations   | 2 April – 24 May 2024 | <ul style="list-style-type: none"> <li>• Pre mock go-live settlement runs (regression using old settlement method):             <ul style="list-style-type: none"> <li>○ Daily &amp; estimation runs</li> <li>○ 1 Initial run (03/02 - 07/02) to update prudential dashboard.</li> <li>○ 1 Final (week TBA)</li> </ul> </li> <li>• Post mock go-live settlement runs (New Settlement Method):             <ul style="list-style-type: none"> <li>○ 1 Initial run (08/02 - 12/02) covering old and new settlement method)</li> <li>○ 1 initial run (11/02 - 15/02) covering all new settlement method)</li> <li>○ 2 preliminary settlement run's (Billing week 7&amp;8) using new settlement method.                 <ul style="list-style-type: none"> <li>▪ Participant to confirm direction and ancillary service recovery changes under the new NECR logic.</li> </ul> </li> <li>○ 2 Final settlement runs (Billing week 7&amp;8) using new settlement method.</li> <li>○ 2 R1 settlement runs (Billing week 7&amp;8) using new settlement method.</li> </ul> </li> <li>• Prudential dashboard updated for participants during this period.</li> <li>• Participants to review data model &amp; reports after each settlement run.</li> <li>• Participants to confirm the market fee calculations under the new database structure.</li> </ul> | FRMPs, market generators, market customers, IRPs, SGAs, Market ancillary service providers, network service providers, metering service providers, embedded network managers |
| <b>Phase 3</b> – Bidirectional Unit bidding and dispatch | TBA                   | <ul style="list-style-type: none"> <li>• Tranche 1             <ul style="list-style-type: none"> <li>○ Selected participant transition from 2DUID to 1DUID</li> </ul> </li> <li>• Tranche 2             <ul style="list-style-type: none"> <li>○ Existing BESS transition from 2DUID to 1DUID for remaining participants.</li> </ul> </li> <li>• Participants to confirm bidding on new BDU</li> <li>• Participants to confirm dispatch instructions and review submitted bids</li> </ul>   | Market Generations (Battery – Gen Only), Market Customers (Battery – Load Only)  |

# Market Trial – Pre-Prod Mock Go-Live- dates TBC

| Prod Implementation Date | Preprod “Implementation” Date | Description                      |
|--------------------------|-------------------------------|----------------------------------|
| Sunday 02 Jun 2024       | Sunday 11 Feb 2024            | IESS Retail & Settlement changes |

- 2 weeks of Retail data from post mock go-live date (11 Feb 2024).
- BDUs will be created in line with market trial testing dates. As there is no retail data during this period BDU’s will not be in any settlement runs.
- Refresh of the pre-production environment is currently planned between March 4-10, 2024

| IESS June 2024 Data Plan Market Trials   |                |             |             |             |           |           |           |  |  |  |
|--|----------------|-------------|-------------|-------------|-----------|-----------|-----------|--|--|--|
| Retail Snap Shot Feb 29th. Mock Retail Go-Live 7th Feb enabling 2 weeks of post go-live data |                |             |             |             |           |           |           |  |  |  |
| Wholesale Snapshot Feb 07  |                |             |             |             |           |           |           |  |  |  |
| Refresh will be undertaken March 4-10  |                |             |             |             |           |           |           |  |  |  |
| Dates  | Jan            | Jan         | Jan         | Jan         | Feb       | Feb       | Feb       | Feb                                      |  |  |
|  | 14-Jan-24      | 21-Jan-24   | 28-Jan-24   | 4-Feb-24    | 11-Feb-24 | 18-Feb-24 | 25-Feb-24 | 29-Feb-24                                |  |  |
| Sunday Start of Week   |                |             |             |             |           |           |           |  |  |  |
| Retail Go-Live aligns to Wholesale proposed 4th Feb  |                |             |             |             |           |           |           |  |  |  |
| Domain   | Retail Data    |             |             |             | Go Live   |           |           |  |  |  |
| Settlements & Prudential   | Wholesale Data |             |             |             | 7-Feb-24  | Go Live   |           |  |  |  |
|  |                |             |             |             |           |           | Go Live   | Future dated Mock Go-Live for Scheduling |  |  |
|  | Pre Go Live    | Pre Go Live | Pre Go Live | Pre Go Live | Post      | Post      | Post      |  |  |  |
|  | Meter Data     |             |             |             |           |           |           |  |  |  |
|  | -20Wk to -4 Wk | -3 Wk       | -2 Wk       | -1 Wk       | 1 Wk      | 2 Wk      | 3 Wk      |  |  |  |

# Draft – Day to Day Calendar Market Trial - Phase 1

- At this stage, the timings and considerations are still being finalised.
- Intention is to run required Day 1 updates in same manner as for Production go-live – IRP, Required NCC updates (DGEN updated will be effective dated to align with Settlements "mock" go-live date)
- We will provide a response to the ITWG, once the timings have been finalised, and incorporate into draft plan
- The communication will come from the IESS or NEM Reform mailbox.

# Draft – Day to Day Calendar Market Trial - Phase 2

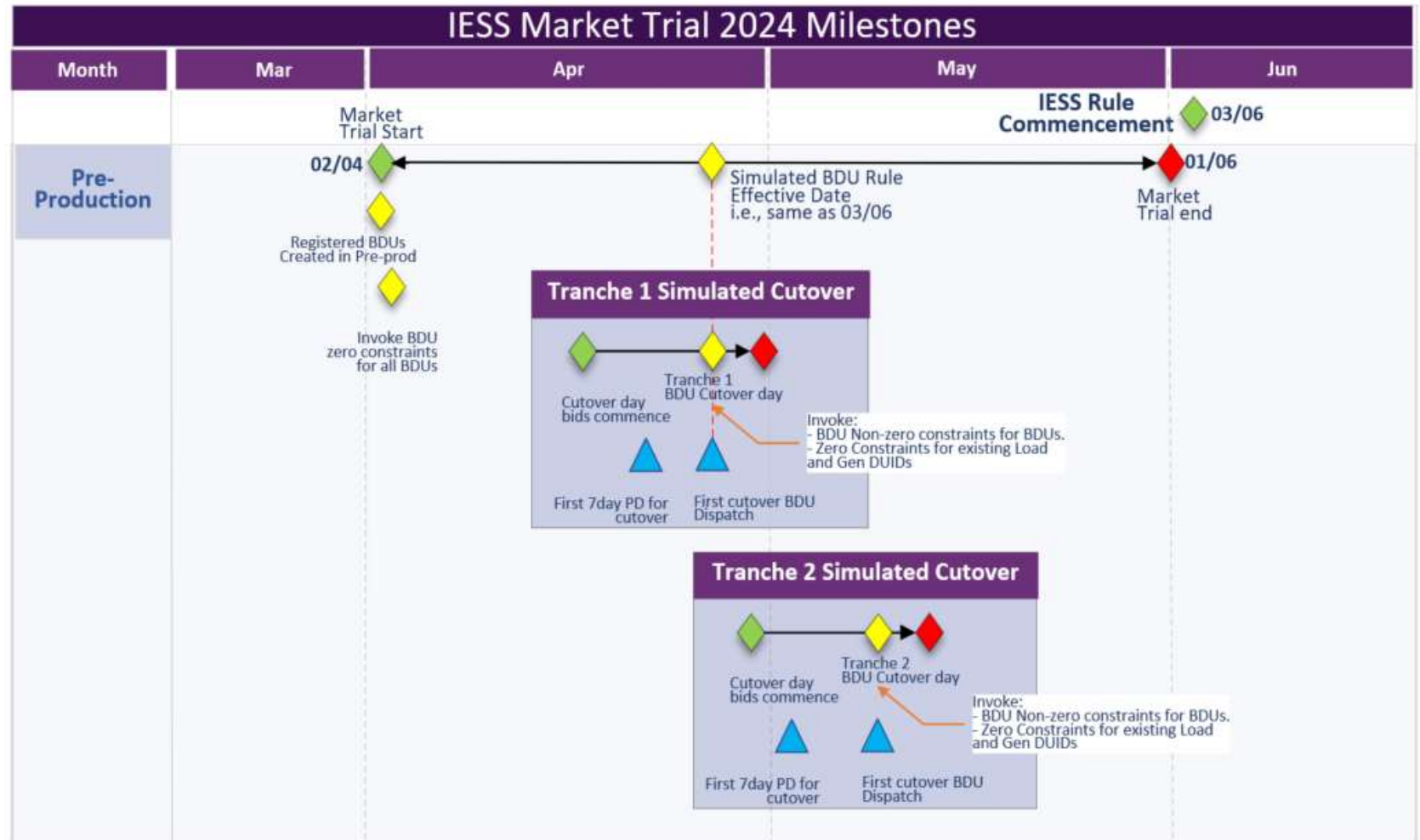
- Market trial will commence on April 2, 2024.
- Initial runs will be executed on April 8, 10 & 12, 2024.
- WK07 & WK08 Prelim & Finals will be issued
- WK07 & WK08 R1's will be issued
- Market Trials end May 24<sup>th</sup>, 2024.
- Note any new BDU's will not be in any of the settlement runs.

|            |                        |   |                        |   |                                       |  |                           |   |                          |   |                        |                          |
|------------|------------------------|---|------------------------|---|---------------------------------------|--|---------------------------|---|--------------------------|---|------------------------|--------------------------|
| Activities | EASTER WEEKEND         |   | EASTER WEEKEND         |   | IESS - Market Trial testing commences |  |                           |   |                          |   |                        |                          |
| Date       | Sunday, April 7, 2024  |   | Monday, April 8, 2024  |   | Tuesday, April 9, 2024                |  | Wednesday, April 10, 2024 |   | Thursday, April 11, 2024 |   | Friday, April 12, 2024 | Saturday, April 13, 2024 |
| Activities |                        | Initial 03/02 - 07/02 using old settlement method [Pre Mock Go-Live]              |                        | Participants to review results from settlement run and nemreports specific to participant |                                       | Initial 08/02 - 12/02 using covering new settlement method [During Mock Go-Live] |                           | Participants to review results from settlement run and nemreports specific to participant |                          | Initial 11/02 - 15/02 Second Initial all with new method [Post Mock Go-Live]              |                        |                          |
| Date       | Sunday, April 14, 2024 |   | Monday, April 15, 2024 |   | Tuesday, April 16, 2024               |  | Wednesday, April 17, 2024 |   | Thursday, April 18, 2024 |   | Friday, April 19, 2024 | Saturday, April 20, 2024 |
| Activities |                        | Prelim - 2024Wk07 (11/02 - 17/02) using new settlement method [Post Mock Go-Live] |                        | Participants to review results from settlement run and nemreports specific to participant |                                       | Final - 2024Wk07 (11/02 - 17/02) using new settlement method [Post Mock Go-Live] |                           | Participants to review results from settlement run and nemreports specific to participant |                          |   |                        |                          |
| Date       | Sunday, April 21, 2024 |   | Monday, April 22, 2024 |   | Tuesday, April 23, 2024               |  | Wednesday, April 24, 2024 |   | Thursday, April 25, 2024 |   | Friday, April 26, 2024 | Saturday, April 27, 2024 |
| Activities |                        | Prelim - 2024Wk08 (18/02 - 24/02) using new settlement method [Post Mock Go-Live] |                        | Participants to review results from settlement run and nemreports specific to participant |                                       | Final - 2024Wk08 (18/02 - 24/02) using new settlement method [Post Mock Go-Live] |                           | ANZAC DAY PUBLIC HOLIDAY  |                          | Participants to review results from settlement run and nemreports specific to participant |                        |                          |
| Date       | Sunday, April 28, 2024 |   | Monday, April 29, 2024 |   | Tuesday, April 30, 2024               |  | Wednesday, May 1, 2024    |   | Thursday, May 2, 2024    |   | Friday, May 3, 2024    | Saturday, May 4, 2024    |
| Activities |                        | R1 - 2024Wk07 (11/02 - 17/02) using new settlement method [Post Mock Go-Live]     |                        | Participants to review R1 results & reports   |                                       | Participants to review Final results & reports                                   |                           |   |                          |   |                        |                          |
| Date       | Sunday, May 5, 2024    |   | Monday, May 6, 2024    |   | Tuesday, May 7, 2024                  |  | Wednesday, May 8, 2024    |   | Thursday, May 9, 2024    |   | Friday, May 10, 2024   | Saturday, May 11, 2024   |
| Activities |                        | R1 - 2024Wk08 (18/02 - 24/02) using new settlement method [Post Mock Go-Live]     |                        | Participants to review R1 results & reports   |                                       | Participants to review R1 results & reports                                      |                           |   |                          |   |                        |                          |
| Date       | Sunday, May 12, 2024   |   | Monday, May 13, 2024   |   | Tuesday, May 14, 2024                 |  | Wednesday, May 15, 2024   |   | Thursday, May 16, 2024   |   | Friday, May 17, 2024   | Saturday, May 18, 2024   |
| Activities |                        |   |                        |   |                                       |  |                           |   |                          |   |                        |                          |



# Draft – Day to Day Calendar Market Trial – Phase 3

- AEMO is planning for several existing BESS’s participants to engage in Market Trial
- To manage simulated cutover activities, AEMO will likely simulate 2 DUID to 1 DUID cutovers in two separate tranches, as pictured.
- To give each BESS participant sufficient time to view/test single BDU dispatch, both simulated cutovers should be completed by early-mid May.
- Further details to be provided in AEMO’s Market Trial Plan, due for publication 16th February, 2024.



# IESS June 2024 Industry Test and Market Trials Considerations & Feedback Requested

| Test Phase   | Timing                | Questions/Considerations   | Participants   |
|--|-----------------------|--|--|
| <b>Phase 1</b> – IESS standing data changes              | TBA                   | <ul style="list-style-type: none"> <li>• what timeframe is needed to confirm the standing data changes are successful?</li> <li>• Is there any updates any participants want to make during this time?</li> </ul>  | FRMPs, market generators, market customers, IRPs, SGAs, Market ancillary service providers, network service providers, metering service providers, embedded network managers |
| <b>Phase 2</b> – Settlements & Prudential Calculations   | 2 April – 24 May 2024 | <ul style="list-style-type: none"> <li>• Do participants want to run a settlement run prior to IESS mock go-live using the old settlement method (Regression).</li> <li>• Are there enough settlement runs as we are running an initial, prelim, final and revision?</li> <li>• Do participants want longer to review results between runs?</li> <li>• Do we plan for any re-run of settlements?</li> <li>• Do participants want to see any extra settlement runs?</li> <li>• Is one direction payment enough for participants to review?</li> </ul> | FRMPs, market generators, market customers, IRPs, SGAs, Market ancillary service providers, network service providers, metering service providers, embedded network managers |
| <b>Phase 3</b> – Bidirectional Unit bidding and dispatch | TBA                   | <ul style="list-style-type: none"> <li>• Is transition of 1 BDU per participant for participants sufficient?</li> <li>• Other Test scenarios participants wish to execute?</li> </ul>  | Market Generations (Battery – Gen Only), Market Customers (Battery – Load Only)  |

AEMO is asking feedback from participants on this which can be sent through the following channels:

- [NEMReform@aemo.com.au](mailto:NEMReform@aemo.com.au)
- [IESS@aemo.com.au](mailto:IESS@aemo.com.au)

# Participant Development Support Environment (PDSE)

- The [Participant Development Support Environment fact sheet](#) was published.
- This environment is additional to AEMO's pre-production and allows market generators, market customers and market small generation aggregators to test their system changes against beta versions of key AEMO system changes in advance of the IESS market testing period.
- The PDSE will be available for participants as follows:
  - Settlements – from 15/12
  - BDU – from 22/01.
- The PDSE has not been built to replicate or replace pre-production. It is a dedicated IESS environment to support participants in the early stages of their development work, particularly the development testing of interfaces to AEMO's updated market systems data models.
- Participants wishing to use the PDSE must be a registered participant/user in pre-production.

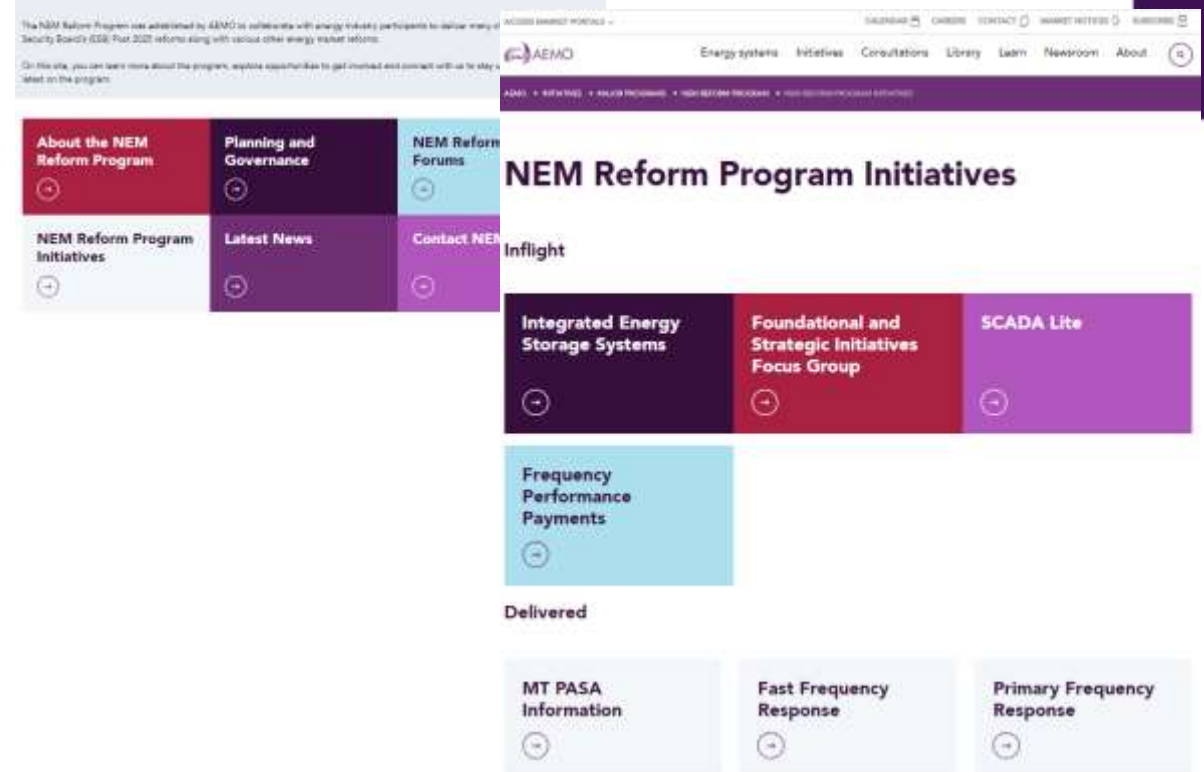


# 5. NEM Reform Program Website Uplift

# NEM Reform Program – A new look

The NEM Reform program website has been updated to provide:

- improved visibility and access to information relating to Program initiatives and Forums
- Initiative and Forum webpage standardisation
- Improved visibility and access to participant support artefacts



# 6. Upcoming Engagements

# Upcoming engagements

| January |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|
| 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 |    |    |    |    |

| February |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|
| 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 |    |    |    |

| March |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|
| 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 |

| April |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|
| 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 |    |    |    |    |    |

| 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                   |  |

| Other Forums                          |  |
|---------------------------------------|--|
| Electricity Retail Consultative Forum |  |

| Other                          |  |
|--------------------------------|--|
| National Public Holiday        |  |
| State/Territory Public Holiday |  |

Note: All NEM Reform related committees, forums and working group invitations for CY2024 have been issued and are referenced on [AEMO's industry calendar](#).

# Stakeholder Sentiment Survey

# NEM Reform Program 2023 to 2024

Complete



| Release | Initiatives  | Status    |
|---------|--|-----------|
| Mar-23  | Integrating Energy Storage Systems (Initial release)   | Delivered |
|         | Stand Alone Power Systems (SAPS) Market Stand-Alone Power System Resource Provider (MSRP) Registration | Delivered |
| MAY-23  | CDR (excluding LCCD)   | Delivered |
|         | B2B v3.8 and other ICFs  | Delivered |
| JUN-23  | SAPS   | Delivered |
| AUG-23  | Integrating Energy Storage Systems (ADC)   | Delivered |
|         | Fast Frequency Response - Dispatch & Reg   | Delivered |
| OCT-23  | Fast Frequency Response  | Delivered |
|         | 5 Minute load profile  | Delivered |
|         | Increased MT PASA Information  | Delivered |
| NOV-23  | CDR (LCCD), CDR Ph3, MSDR compliance Holiday   | Delivered |

| Release | Initiatives   | Status   |          | Impacted Stakeholders   |
|---------|---|----------|----------|---|
| MAR-24  | Metering Exemptions (MSDR)  | New date | On Track | Retailers<br>MC<br>MP/MDP                                     |
| JUN-24  | <a href="#">Integrating Energy Storage Systems [Final]</a>              | Amber    |          | IRPs<br>NSPs<br>FRMP<br>MC/MP/MDP<br>MSRPs<br>ENMs<br>Vendors |
| SEP-24  | Retail Market Improvements  | TBC      |          | FRMP<br>MDP<br>LNSP   |
| DEC- 24 | <a href="#">Frequency Performance Payments</a> (Non-Financial)          | On track |          | Generators,<br>Scheduled Loads                                |
| JUN-25  | <a href="#">Frequency Performance Payments</a> (Financial Commencement) | On track |          | Generators<br>Market Customers                                |



Ongoing

# Going beyond engagement

The NEM Reform Program engagement approach has evolved over time. Building on established engagement structures, the program has evolved to deliver integrated planning for participants and prioritise participant facilitation to support participants with the necessary information and artefacts that underpin their own readiness preparations.

## 2024 STAKEHOLDER FOCUS

### Establishing Engagement

#### Establish information channels

Media Releases, Newsroom articles, Newsletters, Website, Mailbox, infographics, Fact sheets & Tailored materials.

#### Establish consultation channels

Industry briefing & information sessions, Consultative forums, One 2 one meetings, Surveys

#### Stakeholder involvement

Establishing working groups and focus groups, to ensure stakeholder perspectives are understood and provide feedback on the outcome of stakeholder contributions.

#### Establish collaborative channels

(via EWCF, ERCF, PCF and Implementation Forum to facilitate and support industry readiness)

### Planning uplift

#### NEM Reform Implementation Roadmap

(Visibility of implementation roadmap, long-term planning, bundling, sequencing and prioritizing of initiatives)

#### Reform Delivery Committee (RDC)

(Leveraging industry insight to maintain the Implementation Roadmap)

#### NEM Reform Program Governance

(manage implementation impacts of policy/rules changes, stage gate, investment commitment)

#### Informed Go-Live Date Process

(High-level implementation design and participant impacts to assist in setting an informed go-live date for the Rule)

### Participant delivery facilitation

#### Participant Impact Assessments & Development Timelines / Requirements

(identify impacts to participants and the timeline needed for their development)

#### Participant technical information

(Provide participants with tech spec and interface information, testing support and environments, etc)

#### Participant self service

(Self-serve videos outlining implementation design, timing and participant impact assessment)

### Industry Readiness

#### Industry readiness requirements

(Establish L1/L2 milestones, Readiness criteria, Readiness monitoring and reporting, Contingency Plans)

#### Industry Test, Transition & Go-Live

(Plan and facilitate industry testing and market trial, define industry transition plans, define/manage industry-wide go-live)

# NEM Reform Program – 2023 Review

## NEM Reform program 2023 – Program Review ‹‹‹

- 2023 has been an intensive, but successful, year for Reform Delivery.
- Collectively, we have successfully deployed a large volume of reforms
- The November 2023 release marks the final delivery release for this calendar year.

## NEM Reform program 2023 – Forward Planning ›››

- This presents us with an opportunity to reflect on our delivery process and look for opportunities to improve the process for our 2024 delivery schedule.
  - Undertaking a review of our 2023 program processes to help inform 2024 delivery
  - The review should leverage industry insights
  - The review should include, but not be limited to a review of our engagement, planning, delivery and readiness process
  - The data collected as part of this review will be used to inform improving our process



# 8. General Questions and Other Business



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



[NEM Reform Industry Testing Working Group](#)



# 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 dependant 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  |
|------------------------------------|--|--|
| <b>Industry testing</b>            | 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 |
| <b>Invitation industry testing</b> | Coordinated testing of business process scenarios with a select number or subset of participants with systems ready for testing. | Testing NMI transfer Process   |
| <b>Market trials</b>               | 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](http://aemo.com.au)