

# Metering Services Review (MSR)



## Draft High Level Implementation Assessment (HLIA) Industry Session

16 May 2024

Please note that this session will be recording for minute-taking purposes only



# 1. Welcome

# General Housekeeping

1. Please mute your microphone
2. Use the Teams 'Chat' function to ask any questions or provide any comments
  - AEMO and Industry SMEs are on the call, who will attempt to respond
  - Key questions or comments can be highlighted at the end of each agenda item
  - If a question or comment is expected to be covered later in the agenda, this will be mentioned in the chat
3. In attending this meeting, you are expected to:
  - Have reviewed and are familiar with the pack prior to attending this session
  - Contribute constructively
  - Be respectful, both on the call and in the chat

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

ID	Time	Topic	Presenter
1	10:00 – 10:05	Welcome and introduction	Blaine Miner
2	10:05 – 10:10	Purpose of these sessions	Greg Minney
3	10:10 – 10:30	AEMC ‘Accelerating smart meter deployment’ Draft Rule	Blaine Miner
4	10:30 – 10:40	AEMO and IEC Procedure Consultations	Blaine Miner
5	10:40 – 11:05	Potential (Package 1) B2B and B2M procedure impacts	Sean Jennings (B2B-WG) Justin Stute
6	11:05 – 11:35	Potential (Package 1) AEMO system impacts	Simon Tu
7	11:35 – 12:15	Indicative Implementation milestones	Greg Minney
8	12:15 – 12:30	Next steps, General questions and Close	Blaine Miner
Appendix	Pre-reading	<ul style="list-style-type: none"><li>• Metering Services Review background</li><li>• Metering Services Working Group (MSR-WG)</li><li>• AEMC Rule Consultation</li><li>• Competition law meeting protocol and AEMO forum expectations</li></ul>	

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## 2. Purpose of these sessions

# Disclaimer

This document includes material outlining AEMO's interpretation of indicative impacts of national energy market (NEM) reforms to energy market systems and processes for energy industry participants, as at 9 May 2024.

The interpretations expressed in this presentation are not binding on AEMO. The interpretation of the impact of NEM reforms may change at any time.

Anyone participating or intending to participate in the NEM should obtain detailed advice about the application of the National Electricity Rules and applicable laws, procedures and policies to their specific circumstances.

To the maximum extent permitted by law, AEMO and its employees or consultants are not liable for any statements in, or omissions from, these materials, or for any use of or reliance on them.

# Purpose of these sessions

## What is the purpose of AEMO's high level implementation assessment (HLIA) process?

The purpose of the HLIA is to provide a preliminary view to participants and the AEMC on how the Accelerated Smart Meter Deployment (Metering Services Review) may be implemented. This is intended to inform participants as they develop their own implementation timelines and impact assessments.

The HLIA document provides an indicative and preliminary overview of:

- Likely impacted Market Procedures.
- High level system and data exchange impacts.
- Indicative timelines showing consultation period/s, AEMO development and testing timeframes, industry development, testing, market trial and go-live timings.

## What isn't AEMO's high level implementation assessment process?

This document is not intended to pre-empt the outcomes of the ongoing Rule Change process, but rather add an additional element of rigour to this process between draft and final rule and determination by the AEMC. It is hoped that this document and the accompanying consultation will elicit feedback from participants which the AEMC can use to inform its final rule and determination on the Accelerated Smart Meter Deployment.

The AEMC remain the final decision maker on the final rule determination.



# High Level Implementation Assessment Process

AEMO's HLIA process provides a preliminary view to participants and the AEMC on how the Accelerated Smart Meter Deployment (Metering Services Review) may be implemented by AEMO.

HLIA Process	Indicative Dates
AEMC draft rule and determination	4 April 2024
AEMO to publish HLIA Slide Pack and v0.1 of HLIA	9 May 2024
AEMO to hold HLIA webinar	16 May 2024
Participant feedback to AEMO on the draft HLIA	23 May 2024
AEMC final rule and determination expected	11 July 2024
Publish final HLIA	Approximately 4 weeks after AEMC final rule change and determination

# 3. AEMC 'Accelerating smart meter deployment' Draft Rule

# Accelerating Smart Meter Deployment Rule Change: Introduction

- The Accelerating Smart Meter Deployment Draft Rule seeks to implement the recommendations of the AEMC's review of the metering services framework in 2023.
- To enable an acceleration for the deployment of smart meters, the draft rule outlines a regulatory change that requires Distribution Network Service Providers (DNSPs) to create a **Legacy Meter Replacement Plan (LMRP)** to schedule the replacement of their type 5 and 6 (legacy) metering installations. DNSPs must prepare a schedule for each 12-month period, commencing July 2025 to June 2030. FRMPs will be responsible for engaging Metering Coordinators (MCs) to replace legacy metering installations with smart metering installations according to the schedule.
- To facilitate the accelerated deployment, the AEMC require **new processes for the management of site defects and metering installations that have shared points of isolation**. The draft rule requires a formal site defect tracking process which will require MCs to record a defect and for FRMPs to record notifications to customers.

# Accelerating Smart Meter Deployment Rule Change Introduction

- In addition, there will be new obligations for industry coordination between DNSPs, FMRPs and MCs for sites with shared points of isolation. **Retailers are required to provide notifications to customers** regarding the installation of a smart metering installation. The current ability of **customer to opt-out of a metering installation change are proposed to be removed.**
- A new requirement is proposed to be placed on MCs and Metering Data Providers (MDPs), for the **provision of a basic power quality data (PQD) service to DNSPs.** AEMO is tasked with determining the specifications, formats and delivery mechanism for the basic PQD service.
- Finally, the draft rule **requires AEMO to develop an asset management strategy** to ensure MCs have a testing and inspection strategy in place to assess meter accuracy, having regard to the costs and benefits to consumers.

\* [AEMC – Accelerating smart meter deployment – Rule Change](#)

# Package 1 Topics - LMRP

- The draft rule would introduce a new regulatory mechanism where **DNSPs work with retailers, MCs, and other stakeholders** to develop an LMRP.
- Retailers and metering parties **would have the option to replace meters ahead of the LMRP** meter replacement schedules if they choose to.
- DNSPs would be **required to develop LMRPs in accordance with the ‘LMRP objective’**.
- LMRPs would include:
  - An outline of the smart meter rollout profile. This would show the postcodes or suburbs that would be scheduled for meter replacements in each year from 2025 to 2030, and the total number of meters to be replaced in each year.
  - An explanation of how the LMRP objective and guiding principles have been applied (outlined further below), including supporting information and strategies that underpin the LMRPs.
  - A description of the DNSPs’ consultation processes to develop the LMRPs, including who was consulted and how, what was learned through this consultation, and how the feedback shaped the plan.
- LMRP principles
  1. Approximately 15–25 per cent of legacy meters should be planned for replacement in each interim period.
  2. DNSPs should have regard to the overall efficiency of the LMRP, including costs and potential cost savings for affected market participants.
  3. DNSPs should have regard to the impact of LMRPs on retailers and other affected stakeholders.
  4. DNSPs should have regard to appropriate and efficient workforce planning, including in regional areas.

# Package 1 Topics - LMRP

- Key LMRP dates:
  - By 30 September 2024, DNSPs would be required to provide a draft of their LMRPs to affected retailers and MCs, including a schedule specifying the legacy meters and NMI to be replaced in each interim period
  - By 31 January 2025, the DNSPs' LMRP proposals are due to be submitted to the AER.
  - By 31 March 2025, the AER would be required to approve the LMRPs no later than.
  - By 30 May 2025, AEMO would be required to review and update MSATS and any associated procedures to specify the information that must be recorded by a DNSP in relation to an approved LMRP.
  - By 29 June 2025, DNSPs must record the LMRP meter replacement schedules in MSATS.
- The **LMRPs would include yearly interim targets** that retailers must make best endeavours to meet.
- Retailers would be **required to report on their annual performance** to the AER.
- The draft rule includes a process that would **allow retailers to apply for amendments to the schedule** of meters retired over the acceleration period

# Package 1 Topics – Site Defects

- The draft rule would enable a process for retailers to **encourage customers to remediate, as well as to track, site defects.**
  - The draft rule would **establish a site defect notification and industry record-keeping process**, which would be triggered when an MP encounters a defect on a site visit.
  - The process would be a new provision in the NERR and an **ongoing arrangement beyond the acceleration period. It would also apply to all types of meter deployments.**
  - MCs would identify and be responsible for recording site defects and retailers would be responsible for notifying customers
1. The **MP discovers a defect** with a site:
    - The MP must leave a defect notice with a customer outlining the site defect preventing a metering upgrade.
    - The MC must:
      - notify the retailer of the site defect
      - **record the defect in MSATS to minimise future wasted site visits**
    - Within five business days of being notified of a site defect, the retailer must:
      - send a notice to the customer informing them of the site defect and requesting the customer remediate the site in preparation for a smart meter installation
      - **record the date the first notice is issued in MSATS.**

# Package 1 Topics – Site Defects

2. **If the retailer has not received confirmation** from the customer that the site defect has been rectified within 40 business days of issuing the first notice:
  - The retailer must:
    - send a follow-up notice to the customer no less than 40 business days and no more than 45 business days after issuing the first notice to the customer
    - **record the date the second notice is issued in MSATS.**
  - For cases where the customer switches retailers, recording the notice issue dates would inform the incoming retailer of the remaining steps in the process and their obligations.
  
3. **The retailer must then use reasonable endeavours to confirm** with the customer whether the site defect has been rectified within 40 business days of issuing the second notice:
  - The retailer must:
    - use reasonable endeavours to confirm with the customer whether the site has been rectified
    - **record the status of site remediation (successful or unsuccessful) in MSATS.**
  - If the customer confirms with the retailer the site defect has not been rectified, or if the retailer is not able to contact the customer, **the retailer is not required to install the meter until they are notified that the site defect has been rectified.**
  - Where a customer changes their retailer part-way through the notification process, **the incoming retailer would be required to complete the remaining steps of the two-stage notification process.**



# Package 1 Topics – Shared Fuse

There are five key steps under the Procedure

1. Discovery of shared fusing: **An MP discovers meters on a shared fuse.** When this happens it must contact the retailer that authorised the site visit and trigger the Procedure. **These metering parties are referred to as the ‘Original MC’ under the Procedure.**
2. Raising a temporary isolation request: Within five business days the retailer must inform the DNSP of the shared fuse and **raise a request for a Temporary Isolation-Group Supply (TIGS)**, as per current arrangements.
3. DNSP visit and notification to retailers: **Within 20 business days of being notified by the retailer**, the DNSP must:
  - a) Visit the site and identify all affected NMs on the shared fuse
  - b) Set a date and time for a supply outage. In setting the duration of the outage, the DNSP should consider the length of time reasonably required to install the new meters
  - c) Issue a notice to the retailers of the respective NMs. The notice must include:
    - i. the details of the Original MC, which enables the retailer to appoint them as their MC for the site, should the retailer wish to do so
    - ii. the date and time of the scheduled outage, which must be between 25 and 45 business days after the notice is issued.

# Package 1 Topics – Shared Fuse

4. Appointment of MCs: Within 10 business days of receiving a notification from the DNSP, **retailers must appoint an MC** (the Original MC or one of their choosing) **and raise a service order for meter replacement(s)**. The date specified in the service order request must align with the date for the scheduled outage specified in the DNSP's notification.
5. Meter replacement: **On the date and time prescribed in the notice and service order request**, the DNSP undertakes the outage and the metering party or parties visit the site and installs the new meters.

# Package 2 Topics – Testing and inspection, Meter Malfunctions

## Testing and inspection

- The draft rule:
  - **exempts MCs from testing and inspecting legacy meters during the LMRP period.**
  - clarifies the testing and inspection requirements for meters by:
    - refining how the testing requirements apply
    - requiring MCs to inspect smart meters in line with an asset management strategy (AMS) approved by AEMO
    - requiring AEMO to develop, maintain, and publish guidelines on the AMS submission and approval process within six months of the final rule being made.
- The draft rule would **require AEMO to develop, maintain, and publish new Asset Management Strategy (AMS) guidelines**

## Meter Malfunctions

- Under the draft rule, there would be **two separately defined categories of meter malfunctions**, with different replacement timeframes.
  - Individually identified (individual failures) 15 business days
  - Identified through statistical testing (family failures) 70 business days
- When applying for an exemption, **MCs would be required to provide AEMO with a rectification plan** for malfunctions

## Package 3 Topic – Power Quality Data (PQD)

- The draft rule would introduce new arrangements to the **metering framework to provide DNSPs access to ‘basic’ PQD from small customer meters** on an ongoing basis, without undue delay or direct charge.
- ‘Basic’ PQD would be provided **free of direct cost and access** to ‘advanced’ PQD is negotiated on a commercial basis
- AEMO is to enable a ‘basic’ PQD service through a **standardised exchange architecture and appropriate service levels.**
- ‘Basic’ PQD, would include **measurements of voltage (in volts), current (in amperes), and power factor** (expressed as the ratio of the active power kW to the apparent power kVA or as a phase angle).
- The term PQD is **to be included in the definition of ‘metering data services’** so that obligations on MDPs to provide metering data services applies to ‘basic’ PQD **to the extent necessary**, which includes the validation and substitution of power quality data. Consequently, **new accreditation maybe required.**
- The draft rule would make consequential amendments to support these arrangements, such as: refining the requirements on MCs, MDPs, and AEMO, clarifying the information to be included in AEMO’s metrology and service level procedures defining the confidential nature of ‘basic’ PQD.

# 4. AEMO and IEC Procedure Consultations

# AEMO and IEC Procedure Consultations

- It is important to note that the draft rule staggers the implementation of the reform.
- In pre-consultation with industry, AEMO and the IEC **have agreed to consult on those areas of the reform which are deemed high impact for participant** systems to enable the successful start of the acceleration of the deployment of smart meters.
- AEMO and the IEC **acknowledges consultation on a draft rule presents a risk** if there is a material change between the draft and final rule. However, AEMO and the IEC believes that if consultation were to occur after the Final rule is made, this would not allow industry the time to develop, build, test and deploy system changes to meet the changes of the acceleration component of the rule
- To enable consulting parties and stakeholders to more effectively consider various aspects of the draft rule, AEMO and the IEC, where applicable, are **intending to consult in three distinct packages**

Package	Indicative Consultation Dates
1. Accelerated rollout <ul style="list-style-type: none"> <li>• LMRP</li> <li>• Defect Management</li> <li>• Shared Fuse aka One-in-all-in</li> </ul>	~ Late May 2024 to late November 2024 (B2M and B2B)
2. Testing and Inspections, Meter Malfunctions	~ August 2024 to February 2025 (B2M only)
3. Power Quality Data	~ April 2025 to September 2025, dependent on the effective date in the final rule (B2B/B2M)

# Package 1 AEMO and IEC Indicative Procedure Timings

Consultation Stages	Indicative Dates	Business Day Allowance
AEMC Consultation Initiation	Thursday, 14 March 2024	
AEMC Draft Determination	Thursday, 4 April 2024	
<b>AEMO/IEC Consultation Initial Notice</b>	<b>Wednesday, 29 May 2024</b>	
AEMC Draft Determination Submissions Close	Thursday, 30 May 2024	
AEMC Final Determination	Thursday, 11 July 2024	
AEMO/IEC First Stage Submissions Close	Thursday, 11 July 2024	30
AEMO/Draft Determination	Thursday, 5 September 2024	40
AEMO/IEC Draft Determination Submissions Close	Friday, 11 October 2024	25
AEMO/IEC Final Determination	Friday, 22 November 2024	30

**Note:**

- The ‘Business Day Allowance’ column provides insight into how AEMO and the IEC are trying to balance:
  - Allowing additional time for stakeholders to consider the proposed procedure changes to ensure the best possible outcome for Industry and its customers i.e. allowing for more than the 20-business day minimum under the NER for stakeholder submissions
  - Assisting impacted parties by finalising the procedure consultations as efficiently as possible i.e. allowing for less than the 50-business day maximum under the NER
- If a particular stage needs to be lengthened, it can be, being conscious that this may delay the publishing of the final procedures.

# 5. Potential B2B and B2M procedure impacts



# Potential B2B procedure impacts (Package 1) – General changes and Defects

(Sean Jennings – B2B-WG rep)

- Service Order Regulatory Classification
  - A new Regulatory Classification of ‘LMRP’ is proposed to clearly identify meter exchanges driven by an LMRP.
- Service Order Response Exception Codes
  - Changes to the B2B Service Order Response Exception Codes to provide information about why a Service Order (SO) was either partially or wholly not completed. This includes:
    - Allowing ‘Customer Prevented’ where a customer impedes the smart meter exchange; and
    - Standardising the SO Exception Codes and their usage to remove existing variations and increase the consistency of response from all metering parties to all Retailers improving management of follow-on processes.
- Provision of ‘Defect type’ information
  - Where the metering provider has identified a defect preventing the installation of the Type 4 meter, additional enumerated values would be required in the ServiceOrderResponse (SOR) to provide additional information to the retailer regarding defect type.
  - If the customer switches retailer after the SOR was issued to the previous retailer, the new retailer can seek site defect information by sending a request to the Original MC.
- Site defect rectification
  - Where the customer rectifies the site defect and notifies the retailer, it’s proposed that a Retailer will send a Service Order with ‘Defect Rectified’, to advise the metering parties that they should attend the site, disregarding the Site Defect flag indicated in MSATS.

# Potential B2B procedure impacts (Package 1) – Shared Fuse

(Sean Jennings – B2B-WG rep)

To support the Shared fuse legacy meter replacement procedure requirements, the following changes are being considered:

- Requesting the network to identify all impacted NMIs and propose a suitable network outage through a new Supply Service Works (SSW) Temporary Isolation Group Supply (TIGS).
  - ‘TIGS scoping request’.
- Communicating the network outage details to all impacted retailers through the amended use of One-Way Notifications.
  - Information to be provided includes: outage date & duration, a ‘Coordinated Interruption ID’, and the Original MC.
- Coordinating the ‘One In All In’ outage with all retailers and metering parties using;
  - A new SSW subtype for retailers to request the temporary isolation of their impacted NMI(s), including information about the coordinated interruption.
  - An amended use of the Metering Service Work (MSW) fields to indicate the coordinated network outage.

# Potential (Package 1) B2B procedure impacts

(Sean Jennings – B2B-WG rep)

Procedure	Detail of change
Service Order Process Procedure	<ul style="list-style-type: none"> <li>• <b>General:</b> <ul style="list-style-type: none"> <li>• New and amended enumerations:               <ul style="list-style-type: none"> <li>• RegClassification ('LMRP')</li> <li>• ExceptionCode (several updates)</li> </ul> </li> </ul> </li> <li>• <b>Defects:</b> <ul style="list-style-type: none"> <li>• New enumerations:               <ul style="list-style-type: none"> <li>• PurposeofRequest ('Defect Rectified')</li> <li>• RecipientReference (Defect enumerations)</li> </ul> </li> <li>• Amendments to Table 12 re Timing Period for completion of work</li> </ul> </li> <li>• <b>Shared Fuse:</b> <ul style="list-style-type: none"> <li>• Updates to Supply Service Works (SSW) subtypes:               <ul style="list-style-type: none"> <li>• Temporary Isolation Group Supply - Scoping Request</li> <li>• Temporary Isolation Group Supply - One In All In</li> </ul> </li> <li>• Amendment to the usage of the:               <ul style="list-style-type: none"> <li>• 'FormNumber' field, to contain the 'Coordinated Interruption ID'</li> <li>• 'Co-ordinatingContactName' field, to contain the Original MC Participant ID</li> <li>• 'CustomerPreferredDateAndTime field,' to contain the coordinated Interruption start and end date, and times.</li> </ul> </li> </ul> </li> </ul>

# Potential (Package 1) B2B procedure impacts

(Sean Jennings – B2B-WG rep)

Procedure	Detail of change
Customer and Site Details Notification Process (pending consultation)	<p><b>Defects:</b></p> <ul style="list-style-type: none"> <li>• Site Access Request \ Notification to consider:               <ul style="list-style-type: none"> <li>• New Reason ‘Defect’ to specifically request only the site defect information</li> <li>• Standard values for Defects to support retailers clearly communicating the site defect to customers</li> </ul> </li> </ul>
One Way Notification Process Procedure	<p><b>Shared Fuse:</b></p> <ul style="list-style-type: none"> <li>• New ‘ReasonForNotice’ code of ‘One In All In’</li> <li>• ‘Coordinated Interruption ID’ and Original MC to be provided in the ‘Notes’, for the retailer to use in the Metering Service Work (MSW) Meter Exchange Service Order</li> <li>• Use of subtype ‘Distributor Works’, to help suppress Retailer customer notifications and Planned Interruption Notifications (PINs) from the Retailer to the LNSP.</li> </ul>

# Potential (Package 1) B2M procedure impacts

(Justin Stute)

Market Settlement and Transfers Solutions procedures and supporting documents	Detail of change
MSATS Procedure - CATS	<ul style="list-style-type: none"> <li>• New Change Request codes</li> <li>• Modification to Blind Update Tool</li> <li>• Potential changes to set the defect and remediation statuses to null upon installation of a smart meter</li> <li>• New Obligations to Roles for DNSP, MC and FRMPs</li> </ul>
Standing Data for MSATS	<p>New fields required for:</p> <ul style="list-style-type: none"> <li>• LMRP</li> <li>• Site defect and associated notifications</li> </ul>

# Potential (Package 1) B2M procedure impacts

(Justin Stute)

Accreditation and Registration	Detail of change
Guide to the Role of the Metering Coordinator	Include a new responsibility for the MC to update MSATS when advised of a site defect at a metering installation with a legacy meter
Metering Procedures,	Detail of change
Retail Electricity Market Procedures – Glossary and Framework	Include new definitions as part of the Rule change

# Possible Package (2 & 3) B2M procedure impacts

(Justin Stute)

Metering procedures, guidelines and processes	Detail of change
Service Level Procedure MDP services	Processing of Power Quality Data
Metering Installation Malfunction Procedure	Include new separately defined categories of malfunctions for individual and statistically tested meters
PQD format (new)	Specify the data format for PQD
Asset Management Strategy Guideline (new)	AEMO to develop a guideline to clarify the testing and inspections requirements for MCs

Metrology Procedures and unmetered loads	Detail of change
Metrology Procedure Part A	Changes to reflect inclusion of Power Quality Data
Metrology Procedure Part B	Provide details of validation and substitution for Power Quality Data

Accreditation Checklists	Detail of change
Metering Data Providers	Changes required to record Power Quality Data

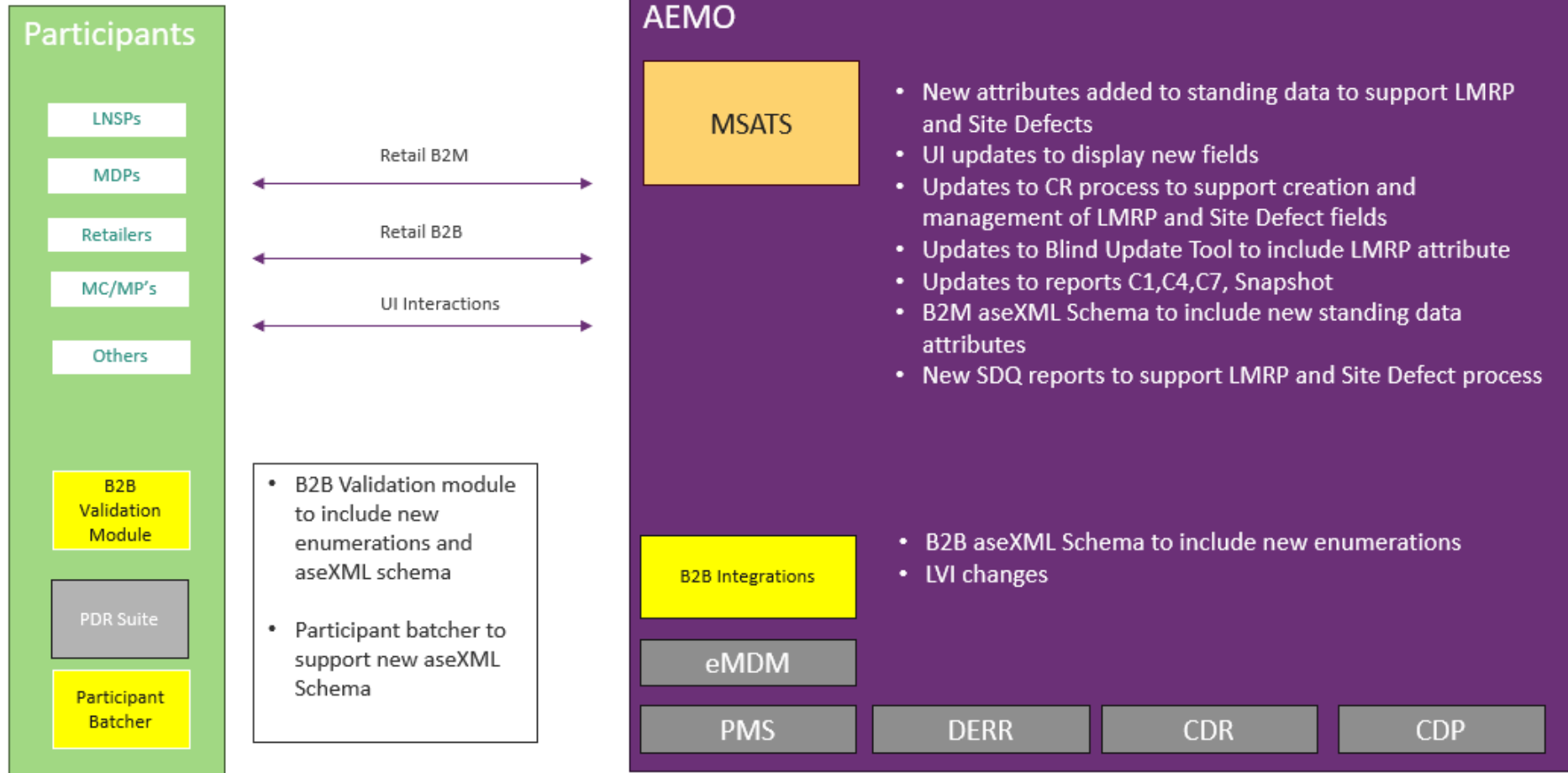
# 6. Potential (Package 1) AEMO system impacts



# Potential (Package 1) AEMO system impacts

- AEMO and B2B WG Guiding Principle
  - Employ established B2B and B2M frameworks, data exchange mechanisms, and fields to ensure compatibility with existing participant and AEMO systems, minimise complexity, and reduce implementation efforts
  - For B2M
    - Utilise the current CATS standing data model and frameworks for data access and NMI maintenance to maintain system integrity, streamline implementation and reduce cost
  - For B2B
    - Use existing B2B transactions, types, subtypes, and fields to retain current elements and enumerated lists, simplifying data management, reducing implementation efforts and cost
- AEMO has identified the technical impacts on its own systems in the coming slides and asks that participants consider how these, in turn, impact their ability to manage standing data and B2B data exchange
- The significant participant and role-specific system and business process updates which are required to replace legacy meters are not covered here

# Potential (Package 1) AEMO system impacts



Legend: T-Shirt Sizes

High	Medium	Low	No Impact	TBC
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# Potential (Package 1) AEMO system impacts - LMRP

Market Settlement and Transfers Solutions	Detail of change
NMI Standing Data	New CATS NMI Standing Data Attribute (CATS_NMI_DATA) <ul style="list-style-type: none"> <li>Introduced to record the LMRP meter replacement schedule in MSATS per relevant procedures</li> </ul>
Blind Update Tool (BUT)	DNSP Management of LMRP Attribute via BUT <ul style="list-style-type: none"> <li>Enables initial population to June 29, 2025 and updates of the LMRP value by DNSP from May 2025-2030</li> <li>Post-BUT updates, all entitled roles can request updated values via the C1 report</li> </ul>
Change Request Process	Update to CR Process to support DNSP management of LMRP attribute for an NMI <ul style="list-style-type: none"> <li>Utilise existing 5000 series CRs and validation rules for DNSP and AEMO staff</li> <li>Post-CR updates, all entitled roles receive CATS Notification or can request updated value via the C1 report</li> </ul>
Standing Data Access	LMRP value accessible to entitled participant roles via <ul style="list-style-type: none"> <li>CATS Reports (C1, C4, C7) and MSATS Snapshot Report</li> <li>MSATS Browser</li> </ul>

# Potential (Package 1) AEMO system impacts - LMRP

Market Settlement and Transfers Solutions	Detail of change
RM Report	Where required, AEMO to provide new RM29 SDQ queries to DNSPs to identify standing data anomalies related to their obligations on LMRP
aseXML	<p>New B2M aseXML_r4(n) version of LATEST/CURRENT to support new CATS_NMI_DATA attribute</p> <ul style="list-style-type: none"> <li>MSATS shall support the previous B2M aseXML_r4(n-1) schema version as SUPERSEDED</li> <li>B2M aseXML_r4(n-2) becomes obsolete</li> </ul>

# Potential (Package 1) AEMO system impacts - LMRP

B2B Transaction	Detail of change
<b>Use Case:</b> Allow the FRMP to identify for the MP that the meter is to be swapped is part of an LMRP by setting RegClassification to 'LMRP'	
<b>Transaction:</b> Service Order Request	Schema Impact <ul style="list-style-type: none"> <li>Modification to ElectricityEnumerations.xsd, 'LMRP' added to the enumerated list for <i>RegClassification</i></li> </ul> B2B Browser (LVI) and B2B Validation Module
<b>Transaction Type:</b> Metering Service Works	
<b>Sub Type:</b> Exchange Meter	
<b>Initiator:</b> FRMP	
<b>Recipient:</b> MP (DNSP and MDP)	

# Potential (Package 1) AEMO system impacts - Site Defects

Market Settlement and Transfers Solutions	Detail of change
NMI Standing Data	New CATS NMI Standing Data Attribute (CATS_NMI_DATA) <ul style="list-style-type: none"> <li>• Introduction of a 'Defect Flag' attribute to record site defects in MSATS</li> </ul>
Change Request Process	MC updates Defect Flag value through new CATS CRs <ul style="list-style-type: none"> <li>• Utilises new 5000 series CRs and validation rules for both MC and AEMO</li> <li>• Post-CR updates, all entitled roles receive CATS Notification or can request updated value via the C1 report</li> <li>• Upon Completion of CR 3004/3005 or 3090/3091               <ul style="list-style-type: none"> <li>• If a decommissioned meter is coded as 'BASIC' or 'MRIM', and the newly activated meter is coded as 'COMMS*' or 'MRAM', the Defect Flag for the NMI is set to Null</li> </ul> </li> </ul>
Standing Data Access	Defect Flag value accessible to entitled participant roles via: <ul style="list-style-type: none"> <li>• CATS Reports (C1, C4, C7) and MSATS Snapshot Report</li> <li>• MSATS Browser</li> </ul>
RM Report	Where required, AEMO to provide new RM29 SDQ queries to MCs to identify standing data anomalies related to their obligations on Defects
aseXML	New B2M aseXML_r4(n) version of LATEST to support new CATS_NMI_DATA attribute

# Potential (Package 1) AEMO system impacts - Site Defects

B2B Transaction	Detail of change
<p><b>Use Case:</b> A defect stopping the replacement of single or multiple meters has been identified, and a site defect notice has been issued.</p>	
<p><b>Transaction:</b> Service Order Response</p>	<p>Schema Impact</p> <ul style="list-style-type: none"> <li>• Modification Electricity_r4(n).xsd, 'Defect' added to the enumerated list for <i>SORDResponseCode</i></li> <li>• Necessitates a B2B root version change to aseXML_r4(n)</li> </ul> <p>B2B Browser (LVI) and B2B Validation Module</p> <p>Note: The existing field <i>RecipientReference</i> used to support additional values</p>
<p><b>Transaction Type:</b> -</p>	
<p><b>Sub Type:</b> -</p>	
<p><b>Initiator:</b> MP</p>	
<p><b>Recipient:</b> FRMP</p>	

# Potential (Package 1) AEMO system impacts - Site Defects

B2B Transaction	Detail of change
<b>Use Case:</b> Inform the MP that the Retailer believes the site defect inhibiting the exchange of a Type 5 or 6 for a Type 4 meter has been rectified.	
<b>Transaction:</b> Service Order Request	Schema Impact <ul style="list-style-type: none"> <li>Modification ElectricityEnumerations.xsd, 'Defect Rectified' added to the enumerated list for <i>PurposeOfRequest</i></li> </ul> B2B Browser (LVI) and B2B Validation Module
<b>Transaction Type:</b> Metering Service Works	
<b>Sub Type:</b> Exchange Meter	
<b>Initiator:</b> FRMP	
<b>Recipient:</b> MP (DNSP and MDP)	



# Potential (Package 1) AEMO system impacts - Site Defects

B2B Transaction	Detail of change
<b>Use Case:</b> Transaction to support FRMPs seeking defect information by sending a Request to the MP for site defect information and an MP Notification response.	
<b>Transaction:</b> <i>[to be finalised by the B2B-WG]</i>	As the Transaction details are unfinalised by the B2B-WG, the impact of this cannot be assessed by AEMO
<b>Transaction Type:</b> <i>[to be finalised by the B2B-WG]</i>	To use a new or existing transaction
<b>Sub Type:</b> -	To use new or existing fields
<b>Initiator:</b> FRMP for Request, MP for Notification	
<b>Recipient:</b> MP for Request, FRMP for Notification	

# Potential (Package 1) AEMO system impacts - Site Defects

Market Settlement and Transfers Solutions	Detail of change
NMI Standing Data	Two new CATS NMI Standing Data Attribute (CATS_NMI_DATA) <ul style="list-style-type: none"> <li>• Introduction of a 'Site Remediation Status' attribute to record outcome of site defect remediation efforts</li> <li>• Introduction of a 'Site Remediation Date' attribute to record date the status was changed</li> </ul>
Change Request Process	FRMP updates 'Site Remediation Status' and Date value through new CATS CRs <ul style="list-style-type: none"> <li>• Utilises new 5000 series CRs and validation rules for both FRMP and AEMO staff</li> <li>• Post-CR updates, all entitled roles receive CATS Notification or can request updated value via the C1 report</li> <li>• Upon Completion of CR 3004/3005 or 3090/3091               <ul style="list-style-type: none"> <li>• If a decommissioned meter is coded as 'BASIC' or 'MRIM', and the newly activated meter is coded as 'COMMS*' or 'MRAM', the Site Remediation Status and Date fields for the NMI are set to Null</li> </ul> </li> </ul>
Standing Data Access	Site Remediation Status and Date fields value accessible to entitled participant roles via: <ul style="list-style-type: none"> <li>• CATS Reports (C1, C4, C7) and MSATS Snapshot Report</li> <li>• MSATS Browser</li> </ul>

# Potential (Pkg 1) AEMO system impacts - Site Defects

Market Settlement and Transfers Solutions	Detail of change
RM Report	Where required, AEMO to provide new RM29 SDQ queries to FRMPs to identify standing data anomalies related to their obligations on Site Remediation Status and Date fields
aseXML	New B2M aseXML_r4(n) version of LATEST to support new CATS_NMI_DATA attributes

# Potential (Pkg 1) AEMO system impacts - One In All In

B2B Transaction	Detail of change
<p><b>Use Case:</b> Where an MC has identified shared fusing, a retailer will send this request to the DNSP, asking that they identify all impacted NMIs and FRMPs.</p>	
<p><b>Transaction:</b> Service Order Request</p>	<p>Schema Impact</p>
<p><b>Transaction Type:</b> Supply Service Works</p>	<ul style="list-style-type: none"> <li>• Modification to Electricity_r4(n).xsd, 'Temporary Isolation - Scoping Request' added as a new <i>ServiceOrderSubType</i></li> </ul>
<p><b>Sub Type:</b> <b>NEW</b></p>	<ul style="list-style-type: none"> <li>• Necessitates a B2B root version change to aseXML_r4(n)</li> </ul>
<p><b>Initiator:</b> FRMP</p>	<p>B2B Browser (LVI) and B2B Validation Module</p>
<p><b>Recipient:</b> DNSP (MDP MP MC)</p>	

# Potential (Pkg 1) AEMO system impacts - One In All In

B2B Transaction	Detail of change
<b>Use Case:</b> DNSP is requested to temporarily isolate (disconnect) supply at a supply point for a limited time to enable Legacy Meters to be replaced	
<b>Transaction:</b> Service Order Request	Schema Impact
<b>Transaction Type:</b> Supply Service Works	<ul style="list-style-type: none"> <li>Modification to Electricity_r4(n).xsd, 'Temporary Isolation – One-In-All-In' added as a new <i>ServiceOrderSubType</i></li> </ul>
<b>Sub Type:</b> <b>NEW</b>	<ul style="list-style-type: none"> <li>Necessitates a B2B root version change to aseXML_r4(n)</li> </ul>
<b>Initiator:</b> FRMP	B2B Browser (LVI) and B2B Validation Module
<b>Recipient:</b> DNSP (MDP MP MC)	Note: Use of <i>FormNumber</i> to carry a One-In-All-In reference number

# 7. Indicative Implementation milestones

# Implementation milestones

- Summary covers implementation approach and timings for 3 packages
  - These timelines and activities will be updated in the final HLIA post Final AEMC Determination to form baseline delivery approach for the overall initiative
  - Overall Plan does shows AEMO's proposal which does not meet all draft rule obligations
- Package 1 Implementation
  - Approach advances availability of procedures and technical documents to support participant development
    - While recognising the dependencies between AEMC rule determinations, procedures, and technical documents
  - Acknowledges the joint risk of proceeding ahead of final determinations
  - To support the provision of as much participant development time within overall rule compliance requirements
- Package 2 Implementation
  - No identified AEMO systems impacts supporting Package 2
- Package 3 Implementation
  - Assumes, for overall industry cost and operational efficiency, that delivery will be implemented on Industry data Exchange (IDX) platform
  - Timeframes reflect planned availability
  - Approach will be updated based on timing obligations in final determination

# Things to consider....

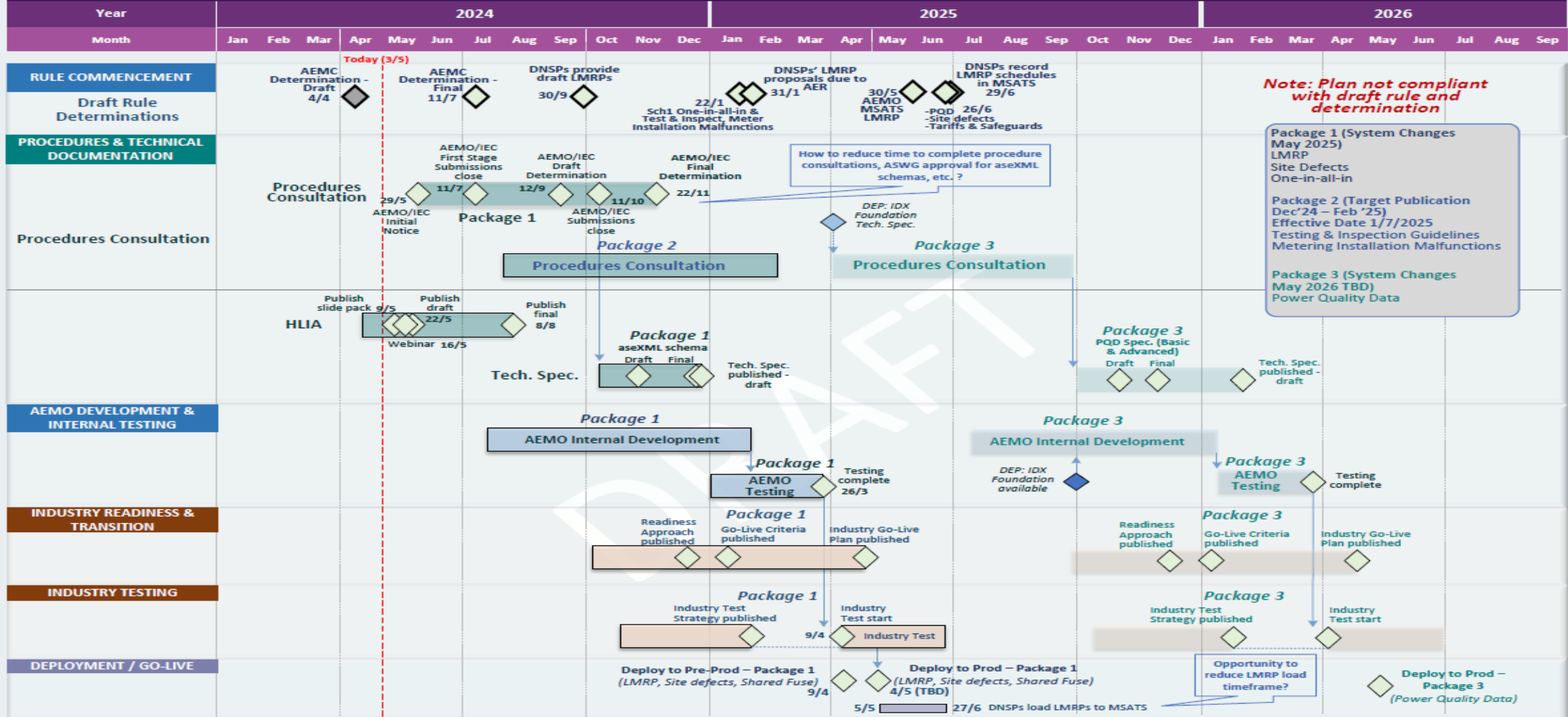
- How long will it take for DNSPs to populate the ~4M LMRP NMI values in MSATS using the Blind Update Tool (BUT)?
  - Current Industry agreed limit is 400k updates per day. Can this be increased?
- What opportunities are there to balance the AEMC's policy objectives with an effective implementation e.g. DNSPs only being obligated to populate Year 1 of the LMRPs in MSATS by 29 June 2025? Year 2-5 to be populated by 'x' date.
  - Remembering that under the Draft Rule DNSPs would be required to provide a draft of their LMRPs to affected retailers and MCs, including a schedule specifying the legacy meters and NMIs to be replaced in each interim period **by 30 September 2024**
- What can be done to reduce the amount of time required to do 'x'? E.g. complete procedure consultations, ASWG approval processes for aseXML schemas, etc.
- What dependencies do AEMO and Participants have in being able to effectively develop their solutions to comply with their obligations?
  - AEMC Final Rules, AEMO and IEC Final Procedures, 'stable' AEMO Technical Specifications, 'final' aseXML schemas, etc.
- What 'levers' do the AEMC, AEMO and Participants have to mitigate the risk of an unsuccessful implementation?
- When will Participants likely be ready to perform Industry testing, assuming late November procedure determinations?
- How long will Participants require for industry testing, noting that participants systems and processes will need to in place to participate?
- How can we collectively maximise the time we have to design, develop, test and implement our systems and processes?



# Indicative Draft Implementation milestones

Metering Services Review (MSR) - Timeline (Proposed) as at May 2024

Version 0.2.3



# Relationships to other initiatives

Regarding initiative specific relationships AEMO considers:

- Staggering the consultation timeframes where possible to minimise consultation/s running in parallel with other retail reform initiatives such as Unlocking CER benefits through flexible trading arrangements.
- Time, effort and cost savings by bundling ICFs and RoLR changes into the Package 1 release for May 2025.
- For PQD, AEMO to consider in consultation with interested parties the use of the Industry Data Exchange (IDX) platform

For a ‘macro’ view of the NEM Reform Implementation Roadmap please refer to:

<https://aemo.com.au/en/initiatives/major-programs/nem-reform-implementation-roadmap>

# 8. Next Steps, General Questions and Close



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



# Next Steps

## AEMC Draft Determination Submissions Close Thursday 30 May 2024

- AEMC Final Determination and Rules expected to be published by Thursday 11 July 2024

## AEMO and IEC consultations expected to commence on Wednesday 29 May 2024

## AEMO is seeking feedback on its draft HLIA

- Following this session, please provide your feedback on the HLIA using the provided template.
- Feedback on the draft HLIA is to be sent to [nemreform@aemo.com.au](mailto:nemreform@aemo.com.au) by **23 May**.
- AEMO's Final HLIA expected to be published ~4wks after the AEMC's Final Determination and Rule is published.

# Appendix

# Metering Services Review background

- On 3 December 2020, the Commission initiated a review into the regulatory framework for metering services.
- The purpose of the review was to determine whether the reforms introduced under the ‘Expanding competition in metering and related services’ (Competition in metering) rule change have:
  - met expectations,
  - whether changes are required to improve the efficiency and effectiveness of the regulatory framework for metering services, and
  - whether the regulatory framework for metering services supports the implementation of other electricity sector reforms where metering services will play a role.
- In August 2023, the Australian Energy Market Commission (AEMC) made final recommendations to improve the regulatory framework for metering services and enable consumers to access the benefits of smart meters sooner.
- The Commission recommended that the deployment of smart meters should be accelerated to target reaching 100% of ‘small customers’ including residential and small commercial or business customers by 2030.
- The Commission found that there is a clear case for accelerating the deployment of smart meters and implementing supporting reforms. Achieving a critical mass of smart meter deployment in a timely and cost-effective way will help deliver greater benefits to customers – and deliver them earlier.

# Metering Services Working Group (MSR-WG)

- In August 2023, Industry (via the B2B-WG) sought AEMO’s assistance to help establish and support a new bespoke Industry working group, the Metering Services Review Working Group (MSR-WG)
- The objective of the MSR-WG was to:
  - Identify suboptimal aspects of the AEMC’s Final Report
  - To help inform the AEMC’s Rule Change process
  - Develop key artifacts and content to inform stakeholders of potential MSR considerations and impacts
  - Support AEMO and the IEC in preparing for, and executing, Procedural consultations
- The MSR-WG currently comprises 5 Retailer reps, 6 Network reps and 4 Metering Party reps

Retailers	Networks	Metering Parties
AGL	Endeavour Energy	Intellihub
Alinta Energy	Energy Queensland	PlusES
EnergyAustralia	Essential Energy	Bluecurrent
Origin Energy	Evo Energy	Yurika
Red and Lumo Energy	SAPN	
	TasNetworks	

- The WG has met several times virtually and face-to-face (in 2-3 day workshops on 5 occasions)

# AEMC Rule Consultation

- The Australian Energy Market Commission (AEMC or Commission) has decided to make a draft rule in response to the rule change requested by Intellihub, SA Power Networks and Alinta Energy (the proponents).
- The draft rule reflects input provided by a wide group of committed stakeholders over numerous rounds of engagement in the Review. This collaborative effort has been instrumental in identifying opportunities to shape priority reform actions and improve the current regulatory framework, to achieve better outcomes for customers.
- The rule change request seeks to implement recommendations made as part of the Review of the Regulatory Framework for Metering Services (the Review), which was published by the Commission on 30 August 2023.
- The rule change request has been fast-tracked, reflecting the extensive consultation carried out during the Review.

Consultation steps	Indicative Dates
AEMC Consultation Initiation	Thursday, 14 March 2024
AEMC Draft Determination	Thursday, 4 April 2024
AEMC Draft Determination Submissions Close	Thursday, 30 May 2024
AEMC Final Determination	Thursday, 11 July 2024

- For more information, you can contact the AEMC
  - Project leader: Julia Cassuben
  - Email: [julia.cassuben@aemc.gov.au](mailto:julia.cassuben@aemc.gov.au)
  - Telephone: (02) 8296 7840



# 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.



For more information visit

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