

POWER OF CHOICE – MARKET READINESS

PARTICIPANT INFORMATION SESSION 1 & 2

28 November 2016

PRESENTED BY AEMO



Teleconference

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ABOUT THESE INFORMATION SESSIONS



Participant Information Session	Date
Consolidated Session:	28 Nov 2016
1. Overview of POC Rule Changes	
2. Overview of POC Procedural Changes: <ul style="list-style-type: none">• Competition in Metering / Meter Replacement Process	
3. Overview of POC Procedural Changes: <ul style="list-style-type: none">• Embedded Networks	April 2017
4. Overview of POC Procedural Changes: <ul style="list-style-type: none">• Electricity B2B Framework / e-Hub	April 2017
5. Overview of AEMO Qualification and Registration Processes	April 2017
6. Overview of AEMO Industry Testing Process	July 2017

AGENDA

1. Overview of POC

- AEMC's POC Review
- Rule changes relevant to AEMO's POC Implementation Program
- AEMO's POC Implementation Program

2. Overview of POC Procedural Changes (Metering)

- Changes made under Work Package 1

1. OVERVIEW OF “POWER OF CHOICE”



AEMC'S POWER OF CHOICE (POC) REVIEW



What is POC?

- Australian Energy Market Commission (AEMC) developed an integrated package of reforms to support the National Electricity Market (NEM) in meeting consumer needs over the next two decades.
- Provide more opportunities for consumers to make informed choices about the way they use electricity based on the benefits end-use services provide.

Objective

- Ensure the community's demand for electricity services is met by the lowest cost combination of demand- and supply-side options.
- Objective is best met when consumers use electricity at times when the value to them is greater than the total cost of supplying that electricity.

AEMC recommendations

- AEMC Final Report submitted to COAG Energy Council in Nov 2012.
- Several rule changes, reviews and advice have followed.
- Four of those rule changes form the basis of AEMO's POC Implementation Program; effective start date for new arrangements is 1 Dec 2017.

RULE CHANGES RELEVANT TO AEMO's POC IMPLEMENTATION PROGRAM



- 1. Expanding Competition in Metering & Related Services (“MC” rule change)**
 - Aims to open up competition in metering, and facilitate a market-led approach to the deployment of advanced meters where consumers drive the uptake of technology through their choice of products and services.
- 2. Meter Replacement Processes (“MRP” rule change)**
 - Aims to provide clarity on the rights and obligations of parties at a connection point in respect of replacing a meter during the retail transfer process.
- 3. Embedded Networks (“EN” rule change)**
 - Aims to clarify the regulatory arrangements for ENs, and reduce the barriers to EN customers accessing electricity retail market offers.
- 4. Updating the Electricity B2B Framework (“B2B” rule change)**
 - Aims to update the governance and other arrangements for electricity B2B Procedures to facilitate communications between a wider range of parties that may be interested in providing and using services related to small customer meters.

RULE CHANGES REQUIRE MANY PARTIES TO CREATE/UPDATE/PUBLISH MANY DOCS.



AEMO

- Amend / develop several procedures and guidelines.

Information Exchange Committee (IEC)

- Develop recommendations to amend B2B Procedures.

Australian Energy Regulator (AER)

- Amend guidelines.

Market Participants (distribution and retail businesses)

- Amend standard terms & conditions (T&Cs) and contracts.

RULE CHANGES REQUIRE AEMO TO...



By 1 Sep 2016, amend and publish:

- Service Level Procedures (for Metering Provider (MP) and Metering Data Provider (MDP) services)
- MSATS Procedures
- Metrology Procedures
- Meter Churn Procedures
- Retail of Last Resort (RoLR) Procedures
- NMI Standing Data Schedule (for Embedded Networks (ENs))

By 1 Sep 2016, develop and publish:

- Emergency Priority Procedures
- Minimum Services Specification (for small customer metering installations)
- Network Device Procedure (for installation and removal)

By 1 Mar 2017, develop and publish:

- Information on the application process for registration (for Metering Coordinators (MCs))
- Service Level Procedures (for Embedded Network Managers (ENMs))
- Guide to ENs

RULE CHANGES REQUIRE IEC TO...



Until 1 Dec 2017:

- (New) IEC's functions and powers are limited to:
 - establishing IEC Working Groups, and reviewing/considering their work.
 - developing, consulting on and making the B2B Recommendation.
 - recommending minor/administrative changes to new B2B Procedures.
 - developing, consulting on and approving the IEC Works Programme.

By 1 May 2017:

- IEC to make an IEC Recommendation to change existing B2B Procedures, with effect from 1 Dec 2017.
 - IEC consulting on initial draft B2B Procedures until 2 Dec 2016:
 - <http://www.aemo.com.au/Stakeholder-Consultation/Consultations/Power-Of-Choice---B2B-Procedure-Changes>

By 1 Jun 2017:

- AEMO to publish the B2B Procedures (aiming for 6 Mar 2017).

RULE CHANGES REQUIRE AER TO...



By 1 Dec 2016:

- Amend and publish the Electricity Network Service Provider Registration Exemption Guideline (“AER Network Exemption Guideline”).
 - <http://www.aer.gov.au/networks-pipelines/guidelines-schemes-models-reviews/review-of-network-service-provider-registration-exemption-guideline-2016>
- Publish the (NEM) Distribution Ring-fencing Guideline.
 - <http://www.aer.gov.au/networks-pipelines/guidelines-schemes-models-reviews/electricity-ring-fencing-guideline-2016>

Distribution businesses

By 1 Sep 2017:

- Local Network Service Provider (LNSP) must provide each Financially Responsible Market Participant (FRMP) with a standard set of T&Cs on which it agrees to act as the initial MC with respect to a type 5 (manually read, interval meters) or type 6 (accumulation meters) metering installation.

By 1 Dec 2017:

- Make the required alterations to their (deemed) Standard Connection Contracts (see Schedule 2 of National Energy Retail Rules (NERR)).

Retailers

By 1 Dec 2017:

- Make the required alterations to their Standard Retail Contracts (see Schedule 1 of NERR).

About the MC rule change

- National Electricity Amendment (Expanding Competition in Metering and Related Services) Rule 2015, No.12; rule made on 26 Nov 2015.
- Aims to open up competition in metering, and facilitates a market-led approach to the deployment of advanced meters where consumers drive the uptake of technology through their choice of products and services.
- More information:
 - <http://www.aemc.gov.au/Rule-Changes/Expanding-competition-in-metering-and-related-serv>

OVERVIEW OF “MC” RULE CHANGE (2/4)



Metering Coordinator (MC)

- Changes overall responsibility for metering services in the Rules (NER).
- Role/responsibilities of the Responsible Person (RP) to be provided by a new type of Registered Participant – the “MC”.
- MC also takes on some additional roles to the RP, so that security/access to advanced meters and their services are appropriately managed.

Who can become a MC?

- Any person can become a MC, subject to meeting registration requirements.
 - Other than at transmission connection points (LNSP or FRMP is the MC).
 - Other than at type 7 metering installations (DNSP is MC for type 7 unmetered loads – eg, street lights).
 - DNSP will be the initial MC for types 5 and 6 metering installations.

Who can appoint a MC?

- Retailers are responsible for appointing the MC, except where another party has appointed its own MC (see below).
- Large Customers and (non-market and exempt) Generators can appoint their own MC at distribution connection points.

Minimum Services Specification

- Specifies the minimum services that new/replacement meters installed at small customer premises must be capable of providing.

Small customer opt-out

- Provisions allowing small customers to “opt-out” of having an advanced meter installed.

Clarifies parties’ entitlement to access energy and metering data

- Reflects changes to roles/responsibilities of parties providing metering services.

LNSPs and Network Devices

- Provision for LNSPs to continue to benefit from network devices installed at customers’ premises that allow them to monitor, operate or control their networks, provided there is space for the metering installation and the device.

Remote disconnection/reconnection of small customers

- Allows the retailer to arrange for a MC to remotely disconnect/reconnect small customer premises, in specific circumstances.

Retailer supply interruptions

- Allows retailer to arrange supply interruption at its customers' premises, for purposes of installing, maintaining, repairing or replacing an electricity meter.

Retailer arranged de-energisation

- Allows retailer to arrange de-energisation of a premises if the customer fails to give safe/unhindered access for the retailer to carry out its metering responsibilities, subject to certain requirements.

Amends model terms & conditions of standard contracts

- Reflects changes to roles/responsibilities of parties providing metering services (ie, LNSP's Standard Connection Contracts and Retailer's Standard Retail Contracts).

OVERVIEW OF “MRP” RULE CHANGE (1/2)



About the MRP rule change

- National Electricity Amendment (Meter Replacement Processes) Rule 2016, No.2; rule made on 10 Mar 2016.
- Aims to provide clarity on the rights and obligations of certain parties at a connection point in respect of replacing a meter during the retail transfer process.
- More information:
 - <http://www.aemc.gov.au/Rule-Changes/Meter-Replacement-Processes>

Requires changes to MSATS Procedures

- To enable the incoming retailer to nominate a MC, MP or MDP to be appointed at a connection point in respect of which it is the incoming retailer.
- To enable the (above) appointments to be recorded as being effective:
 - on the day, or
 - after the day, where requested by an incoming retailer,the market load at the connection point transfers to the incoming retailer as the new FRMP.
- To enable installation of a new/replacement metering installation at a connection point as soon as practicable after transfer of the market load is effected by AEMO.

Clarifies responsibility of the new MC

- Where a change in MC at a connection point is effected due to a retail transfer, the new MC becomes responsible for the metering installation at that connection point on the day the transfer completes.

OVERVIEW OF “EN” RULE CHANGE (1/4)



About the EN rule change

- National Electricity Amendment (Embedded Networks) Rule 2015, No.15; rule made on 17 Dec 2015.
- Aims to clarify the regulatory arrangements for ENs, and reduce the barriers to EN customers accessing electricity retail market offers.
- More information:
 - <http://www.aemc.gov.au/Rule-Changes/Embedded-Networks>

OVERVIEW OF “EN” RULE CHANGE (2/4)



Embedded Network (EN)

- “Embedded Network” definition introduced to the NER.
 - A distribution system, connected at a parent connection point to either a distribution or transmission system that forms part of the national grid, and which is owned, controlled or operated by a person who is not a Network Service Provider.

Embedded Network Manager (ENM)

- New accredited provider role created to perform the market interface functions for EN customers to facilitate their access to electricity retail market offers.
 - ENM must be accredited and registered by AEMO (ie, similar to MPs & MDPs).
 - ENM is not a Registered Participant, under Ch.2 of the NER.

Who can become an ENM?

- Any person may apply to AEMO for accreditation and registration as an ENM.
- AEMO to include accred'n/reg'n requirements in ENM Service Level Procedures.
- AEMO to develop guidelines to assist prospective ENMs with their applications.

ENM responsibilities

- Maintain information about types and configuration of metering installations at the parent connection point and all child connection points on the ENM's EN, and about the relevant settlement arrangements.
- Make the above information available on request to the FRMP (or its MC), any incoming retailer (or its MC), or exempt EN Service Provider of the relevant EN.

Embedded Network Operator (ENO)

- AER's Network Exemption Guideline to specify which ENOs must appoint an ENM.
- ENO must appoint an ENM, unless:
 - EN customers will not be able to gain access to a retail market offer, even if an ENM is appointed.
 - AER considers the costs of appointing an ENM are likely to outweigh benefits.

OVERVIEW OF “EN” RULE CHANGE (4/4)



Requires changes to AEMO Procedures and AER Guidelines

- To set out the detailed functions, procedures, governance arrangements and criteria for when ENMs must be appointed.
- AEMO procedures:
 - To specify how ENs and ENMs operate in AEMO’s NEM market systems.
 - For ENM accreditation to ensure ENM capability to perform required functions.
- AER Network Exemption Guideline:
 - To specify which ENOs must appoint an ENM.

Other AEMC recommendations to enhance the rule as made

- Alignments so that EN customers can access retail offers:
 - Jurisdictional regulations.
 - AER Network Exemption Guideline (eg, align meter reading, testing, inspection standards within/outside ENs; EN customers to compare ENO/retailer offers).
- AEMC to review National Energy Retail Law (NERL) and Rules (NERR) to identify and assess issues regarding the regulatory arrangements for EN customers.

OVERVIEW OF “B2B” RULE CHANGE (1/3)



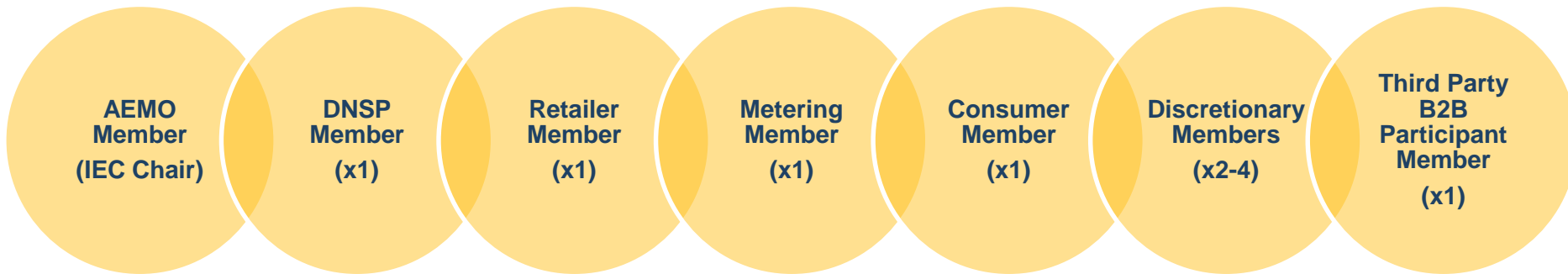
About the B2B rule change

- National Electricity Amendment (Updating the electricity B2B framework) Rule 2016, No.6; rule made on 30 Jun 2016.
- Updates the governance and other arrangements for electricity B2B Procedures to facilitate communications between a wider range of parties that may be interested in providing and using services related to small customer meters.
- More information:
 - <http://www.aemc.gov.au/Rule-Changes/Updating-the-electricity-B2B-framework>

OVERVIEW OF “B2B” RULE CHANGE (2/3)



Amends IEC Membership



Process for changing B2B Procedures

- Any party (other than IEC) may propose a change to B2B Procedures.
- IEC must have regard to National Electricity Objective and new B2B factors (eg, reasonable compliance cost vs benefits), and seek to give effect to B2B Principles (eg, efficient, effective, reliable), when considering proposed Procedure changes.
- AEMO must approve an IEC Recommendation to change the B2B Procedures, unless it is inconsistent with the MSATS Procedures.

OVERVIEW OF “B2B” RULE CHANGE (3/3)



B2B Procedures must provide for:

- B2B comms that support services in the metering Minimum Services Specification.
- A free-form method of B2B communication.

B2B e-Hub must have capability to:

- Facilitate B2B communications, as per the B2B Procedures.
- Meet any performance requirements specified in B2B Procedures.

Parties required to comply with B2B Procedures:

- AEMO, LNSP, local retailer, retailer, MC, MP, MDP, ENM, 3rd party B2B participant.

Parties required to use the B2B e-Hub for B2B communications:

- LNSP, local retailer, retailer, MC, MP, MDP, ENM, 3rd party B2B participant;
- Unless the parties making the communications mutually agree otherwise.

B2B e-Hub users to be accredited

- Parties wishing to use the B2B e-Hub must be accredited with AEMO.

Program objective

- To design, test and implement the required changes to electricity metering, retail market arrangements and infrastructure to give effect to rule changes arising from the POC Review.

Program implementation facilitated by three work streams

- Procedures development
- Technical (system) development
- Market readiness

A fourth work stream is being led by the IEC, with AEMO support

- Business-to-Business (B2B)

POC Forums and Working Groups

- POC Executive Forum
- Retail Market Consultative Forum (not POC specific)
- POC Program Consultative Forum
- POC Working Groups:
 - Procedures Working Group
 - Systems Working Group
 - Readiness Working Group
 - B2B Working Group (an IEC working group, supported by AEMO)

POC webpage on AEMO website

- Follow developments / access meeting papers:
 - <http://www.aemo.com.au/Stakeholder-Consultation/Industry-forums-and-working-groups/Retail-meetings/Power-of-Choice>

2. OVERVIEW OF “POWER OF CHOICE” PROCEDURAL CHANGES (METERING)



RETAIL ELECTRICITY MARKET PROCEDURES: GLOSSARY & FRAMEWORK



- A new document that:
 - Outlines the overall framework for the Retail Electricity Market Procedures.
 - How the Retail Electricity Market Procedures operate under the NER.
 - Contains a glossary of defined terms used for all the Procedures.
- Glossary & Framework forms part of all the procedures, and will be amended each time a Procedure requires amendment (ie, in accordance with the NER consultation process for changing procedures).
- Glossary and Framework contains a list of all AEMO Procedures under Chapter 7 of the NER, and replaces its predecessor document:
 - List of NEM Procedures, Guidelines and Documents required by Chapter 7.
- ❖ Participants should refer to the Glossary and Framework when interpreting defined terms used in the Procedures.

MSATS PROCEDURES – CATS, WIGS & MDM (1/5)



Procedure Changes

- MC role: MC will act in the role of RP in MSATS.
- ENM role: ENM will act in the role of LNSP in MSATS.
- NMI status code of “N”: New code added to indicate when EN customer is no longer settled in the NEM.
- Meter status code of “D”: New code added to indicate remote disconnection at the meter level.
- New Metering Installation Type codes added:
 - “COMMS4D” – Whole current metering installation that meets the Minimum Services Specification.
 - “COMMS4C” – CT connected metering installation that meets the Minimum Services Specification.
 - “MRAM” – Small customer metering installation without comms – type 4A.
 - “VICAMI” – A relevant metering installation as defined in cl.9.9C of NER.

Procedure Changes (cont.)

- Objection logging period: Reduced to 1BD wherever it was >1BD, for all Change Requests (CRs).
 - ie, Transfer CRs now have a 1BD objection logging period.
- New objection codes: Added to CRs.
 - ie, CONTRACT objection code is added to CR1000 series, for current RP to be able to object to new RP appointment by FRMP for large customers.
- Disabled CRs: Where no longer relevant.
 - ie, CR1050 – Change FRMP where FRMP is not the RP.
- CRs for Child NMIs: CRs for creating and maintaining child NMIs are enabled for NMI classification codes “WHOLESALE”, “GENERATOR” and “INTERCONNECTOR”.

Procedure Changes (cont.)

- ENM acting in the MSATS role of LNSP: Becomes the initiating party for all CRs used to create, maintain or make an existing NMI a child NMI.
- Mandatory CR fields: Network Tariff Code and MDM Contributory Suffix now mandatory fields in MSATS in all CRs to create metering installation records.
- CR notifications to parties: Notifications in some CRs have been updated by sending the notification to new parties, or no longer sending it to other parties.
- NMI discovery search: MC of a NMI will be returned to the FRMP and LNSP when they perform NMI discovery search 2.

Procedure Changes (cont.)

- C7 Report (New Participant Access Report): Will contain additional fields:
 - Network Tariff Code.
 - Meter Manufacturer.
 - Meter Model.
- MDM Reports: Will be sent to the MC, and to the ENM in the case of child connection points:
 - MDM RM13 – NMI data-streams history report.
 - MDM RM14 – MDP data version comparison report.
 - MDM RM15 – Count of multiple versions reports.
 - MDM RM18 – Interval data report.

Participant Impacts

- Participants' business processes and systems need to accommodate changes to:
 - Participants' roles in MSATS.
 - Objection logging periods.
 - Objection codes.
 - CR enabling / disabling.
 - CR notifications.
 - CR initiating roles.
 - CR fields and contents.
 - Status codes for NMI and meters.
 - Metering Installation Type Codes.
 - MSATS Reports.

Procedure Changes

- ROLR process in MSATS: Will exclude changing the MC.
 - Only FRMP and LR who are the same as the failed retailer, will be changing to ROLR.
- AEMO notifications: MC added to list of parties AEMO needs to notify by email of a ROLR event within 1 business hour of the announcement of the ROLR event.
- ROLR reports:
 - ROLR_013 and _014 reports – Will be sent to the MC, and to the ENM for child connection points.
 - ROLR_003, _009, _016 and _022 reports – Will be sent to the ENM for child connection points.
 - ROLR_025 and _026 reports – Will be updated to exclude checking instances where the MC equals the failed retailer.

Procedure Changes (cont.)

- MC role: Participant who is responsible for reconciling the MDPs' participant IDs against the list of cancelled CRs that were updating the MDP role post ROLR event, is changing from the FRMP to the MC.
- ENM role: ENM added to the list of participants who need to perform data reconciliation activities post ROLR event, instead of the LNSP in the case of child connection points.

Participant Impacts

- Participants need to manage the appointment / change of the MC post a ROLR event, if required.
- Participants' business processes and systems need to accommodate changes to:
 - ROLR notifications.
 - ROLR reports.
 - Post ROLR event data reconciliation activities.

METER DATA FILE FORMAT (MDFF) PROCEDURE (1/2)



Procedure Changes

- ENM to receive MDFF: ENM added to the list of participants that need to receive the MDFF from MDPs.
- NMI suffixes: MDP must now ensure all NMI suffixes associated with a NMI for a single read event/date are included in the same 100-900 event block in the MDFF (ie, no longer a “best endeavours” obligation).
- Type 4A meters: MDFF is required for new type 4A meters, and Index read rules will apply to type 4A meters.
- TAMPER reason code: Added to the list of reason codes that must be provided for Actual Meter Readings for all intervals.

METER DATA FILE FORMAT (MDFF) PROCEDURE (2/2)



Participant Impacts

- Participants' business processes and systems need to accommodate changes to:
 - Recipients of the MDFF.
 - Obligation on MDP to ensure inclusion of NMI suffixes in the MDFF.
 - MDFF contents.
 - MDFF requirements for type 4A meters.

Procedure Changes

- Replacement of references to RP with MC.
- Provisions for type 4A metering installations.
- Small customer metering installation.
- Minimum Services Specification.
- Emergency Priority Procedure.
- Network Device Procedure.
- Meter Churn Procedures.
- Review of Jurisdictional Metrology Material (subject to confirmation from jurisdictions as to acceptability of the proposed changes).

Participant Impacts

- Participants will need to factor into their operational processes:
 - MC role: New responsibilities of the MC, and changes in relationships and obligations between MC and related parties (FRMP, MP, MDP).
 - Minimum Services Specification: Specifies the required capability of small customer metering installations; provision of these services is optional.
 - Meter Churn Procedures: New provisions specify who can perform a meter churn, and how a meter churn is to be performed.
 - Network Device Procedure: New provisions specify which devices are deemed to be network devices, and parties' responsibilities when removing devices.
 - Emergency Priority Procedure: New provisions specify criteria for determining:
 - An emergency condition.
 - Metering installations affected by an emergency condition.
 - Prioritisation of services by the MC in an emergency event.

Procedure Changes

- MC role: Replacement of references to RP with MC.
- Type 4A metering installations: Provisions for validation, substitution and estimation of type 4A metering installations; these provisions are those currently applied to other manually read interval metering installations.
- Differentiated validation and substitution rules: Rules for “instrument-transformer-connected” and “non-instrument-transformer-connected” type 4 metering installations.
- Differentiated substitution rules: Rules for metering installations installed under cl.9.9A, 9.9B and 9.9C of the NER.
- Type 16 Agreed Method: Includes the period of substitution being extended to 15 days for metering installations other than types 1-3; allows the MDP to make reasonable endeavours to reach an agreement with relevant parties.
- Type 20 Churn Correction: Includes the substitution method to account for situations where the current MDP does not receive churn day metering data from the previous MDP; type 20 substitution method is not based on historical data.

Participant Impacts

- Participants' business processes and systems need to accommodate changes to:
 - Type 4A metering installations:
 - Provision of metering services for type 4A meters is subject to full competition (ie, provision of these services is optional, not regulated).
 - Participants required to apply type 5 validation/substitution/estimation rules to type 4A metering installations, if they choose to provide type 4A metering services.
 - Requires accreditation to provide type 4A services.
 - Delineation between “instrument-transformer-connected” and “non-instrument-transformer-connected” type 4 metering installations:
 - “Instrument-transformer-connected” metering installations are subject to more vigorous validation requirements compared to “non-instrument-transformer-connected” metering installations.
 - Participants should consider how the changes affect operational processes.

Participant Impacts (cont.)

- Participants' business processes and systems need to accommodate changes to:
 - VIC AMI metering installations:
 - VIC AMI metering installations are subject to substitution and validation rules currently applied to other metering installations with remote acquisition.
 - Participants may also use type 51 & 52 substitution types, which are applicable to manually read interval meters.
 - Participants need to assess whether the names of some substitution types need to be changed in their systems, for example:

type 58 to type 19; type 57 to type 18; type 56 to type 18;
type 55 to type 16; type 54 to type 17; type 53 to type 16.

Participant Impacts (cont.)

- Participants' business processes and systems need to accommodate changes to:
 - Type 16 Agreed Method:
 - MDP allowed to undertake substitutions for a longer period than currently required before an agreement needs to be sought with affected parties.
 - Participants should consider how the changes affect operational processes.
 - Type 20 Churn Correction:
 - A new substitution type that can be applied when the new MDP has not received metering data from the old MDP following a meter churn.
 - Participants' processes will need to be able to apply this new substitution type or process metering data, as applicable, with this new substitution type.

SERVICE LEVEL PROCEDURE – MP SERVICES (1/2)



Procedure Changes

- New document that will replace the existing:
 - Service Level Procedure: Metering Provider Services Category B for Metering Installation Types 1, 2, 3, 4, 5 and 6.
- New document includes changes relating to:
 - MC role.
 - MP test plans.
 - Commissioning and meter churn requirements for “instrument-transformer-connected” and “non-instrument-transformer-connected” metering installations.
 - Type 4A metering installations.
 - Small customer metering installations.
 - Embedded Networks.

SERVICE LEVEL PROCEDURE – MP SERVICES (2/2)



Participant Impacts

- Participants should consider how the changes affect operational processes.
 - MC role: New responsibilities of the MC, and changes in relationships and obligations between the MC and MP.
 - MP test plans: Requirement on the MP to have a test plan that provides confirmation of its approach to ensuring compliance of metering installations.
 - Commissioning and meter churn requirements: Differentiated requirements for “instrument-transformer-connected” and “non-instrument-transformer-connected” metering installations.
 - Type 4A metering installations: Provisions relating to their installation and meter churn scenarios.
 - Small customer metering installations: Provisions relating to their installation and commissioning, particularly the requirement to have telecommunications.
 - Embedded Networks: Provisions relating to obligations of an MP with respect to the ENM.

SERVICE LEVEL PROCEDURE – MDP SERVICES (1/2)



Procedure Changes

- MC role: Replacement of references to RP with MC.
- Type 4A metering installations:
 - Provisions for collection, processing and delivery of metering data for type 4A metering installations; these provisions are those currently applied to other manually read interval metering installations.
 - Inclusion of type 4A in meter churn scenarios.
- Delivery of metering data: Provisions for the MDP to deliver metering data to all registered participants (including the MC, ENM), unless there is agreement to the contrary between the relevant parties.
- Embedded Networks: Provisions relating to de-activating data-streams in MSATS.

SERVICE LEVEL PROCEDURE – MDP SERVICES (2/2)



Participant Impacts

- Participants should consider how the changes affect operational processes:
 - MC role: New responsibilities of the MC, and changes in relationships and obligations between the MC and MDP.
 - Type 4A metering installations:
 - Apply type 5 collection, processing and delivery requirements to type 4A metering installations, if participants choose to provide type 4A services.
 - Consider the requirements of meter churn scenarios that include a churn to, or from, a type 4A metering installation.
 - Delivery of metering data: Delivery of metering data to the new roles of MC and ENM, unless the MC or ENM chooses to opt-out of this arrangement.
 - Embedded Networks: Requirement for MDP to de-activate data-stream/s in MSATS where a connection point status indicates it has moved to an EN.

END OF PRESENTATION

Please email any questions to AEMO at poc@aemo.com.au

