

5MS Procedures Working Group #11

Tuesday, 11 June 2019

AEMO Offices:

Level 9, 99 Gawler Place, Adelaide

Level 10, 10 Eagle Street, Brisbane

Level 22, 530 Collins Street, Melbourne

Level 2, 20 Bond Street, Sydney

PLEASE NOTE THIS MEETING WILL BE RECORDED FOR THE PURPOSE OF PREPARING MINUTES

Agenda

NO	TIME	AGENDA ITEM	RESPONSIBLE
Preliminary matters			
1	10:00am – 10:10am	Welcome, introduction and apologies	Emily Brodie (AEMO)
2	10:10am – 10:15am	Minutes and actions from previous meeting	Emily Brodie (AEMO)
Matters for noting			
3	10:15am – 10:30am	Procedures workstream update	Emily Brodie, Blaine Miner, Austin Tan (AEMO)
4	10:30am – 10:40am	Dispatch procedures update	Michael Sanders (AEMO)
Matters for discussion			
5	10:40am – 10:50am	Update: Power system operations	Sujeewa Rajapakse (AEMO)
6	10:50am – 11:20am	Debrief on reconciliation support workshop	Blaine Miner (AEMO)
7	11:20am – 11:50am	Metering package #2	David Ripper (AEMO)
Other business			
8	11:50am – 12:00pm	Forward meeting plan and general questions	Emily Brodie (AEMO)

Newsflash: AEMO Sydney office gets a new 5-minute capable meter!



Minutes and actions from previous meeting

Emily Brodie

Responses to PWG actions

	Topic	Action	Response
9.3.1	5MS Readiness	AEMO invites feedback from the PWG on the approach to transition the 5MS procedures workstream to BAU.	<p>Four responses:</p> <ul style="list-style-type: none"> • 2 were comfortable with the suggested approach. • 2 were supportive of maintaining the PWG until substantive consultation has completed. <p>On balance, have enough substantive content to support PWG meeting in July and likely August. Discuss: meetings beyond August?</p>
9.4.1	UFE Trends Reporting	AEMO invites the PWG to provide feedback what content would be most useful to participants in the UFE Trends Report.	Four responses received and noted.
9.5.1	Rule changes	AEMO to inform the PWG when the Customer Switching rule change request has been submitted to the AEMC.	Rule change request submitted 23 May 2019. Available on AEMC website.

Procedures workstream update

Emily Brodie

Procedures workstream status (Level 3 milestones)

	Pre-consultation		Consultation			
5 MINUTE SETTLEMENT PROCEDURES TRACKING			TIMING			CONTENT
	HLIA	PWG Engagement	Consultation paper	Draft documents	Final documents	Package content
METERING						
1. Metering - Metering Data & Metrology	Jul-18	Jul-18	Sep-18	Jan-19	Mar-19	
2. Metering - MSATS and SLPs	Jul-18	Dec-18 & Mar-19	Apr-19	Aug-19	Sep-19	
3. Metering - Miscellaneous*	Jul-18	Feb-19	n/a	Jun-19	Jul-19	
B2B Procedures - B2B file size	n/a	Feb-19	n/a	n/a	n/a	
SETTLEMENTS						
SRA	Jun-18	Jul-18	n/a	Jul-18	Aug-18	
SRA round #2	Jun-18	Feb-19	Mar-19	Jun-19	Aug-19	
TNSP	Feb-19	Feb-19	n/a	Apr-19	Jun-19	
Estimation	Aug-18	Aug-18	Nov-18	Feb-19	Apr-19	
Reallocations	Dec-18	Dec-18	n/a	Dec-18	Feb-19	
Miscellaneous	Oct-18	Oct-18	Dec-18	Mar-19	May-19	
Prudentials	Aug-18	Sep-18	Apr-19	Jun-19	Aug-19	
DISPATCH						
2. Dispatch - Spot market - Rules consultation	Sep-18	Oct 18 ongoing	Jan-19	Jun-19	Aug-19	
2. Dispatch - Spot market - For comment*	Sep-18	Oct 18 ongoing	n/a	Jul-19	Aug-19	
3. Dispatch - Pricing - Rules consultation	Aug-18	Aug 18 ongoing	Aug-18	Sep-18	Nov-18	
3. Dispatch - Pricing - For comment*	Aug-18	Aug 18 ongoing	n/a	May-19	Jun-19	
4. Dispatch - Miscellaneous*	Jan-19	Feb-19	n/a	May-19	Jun-19	
POWER SYSTEM OPS						
1. Operations - Miscellaneous*	TBA	Apr 19 ongoing	n/a	n/a	Oct-19	

TIMING
Started and on track
Started late
Overdue

CONTENT
No issues
Issues
Severe issues

Procedures workstream meetings

- PWG #12 Friday 12th July, content:
 - Debrief on metering focus group
 - Debrief on responses to metering package #2 first stage consultation
 - Metering package #3
- Focus groups:
 - **Past:** Reconciliation support workshop was held Wednesday, 22 May 2019, Melbourne
 - **Future:** Metering focus group, Friday 14 June, Melbourne

Consultations - Metering

5MS Metering package 2

- First stage consultation published 20 May 2019
- First stage submissions close on 24 June 2019
- This consultation will be a co-consultation taking into consideration 5MS and Global Settlement items as well as a number of Issues and Change Forms (ICFs)
- This package includes more procedures than package 1 and will be materially more complex

5MS Metering package 3

- Includes a number of guidelines and reference documents
- AEMO will be publishing these documents shortly for comments only
- AEMO will consider comments received and then publish the final versions to the AEMO website

Consultations - Settlements

5MS Settlements package – Reallocations (Completed)

- Final notice and procedures published 28 February 2019
- <https://www.aemo.com.au/Stakeholder-Consultation/Consultations/Five-Minute-Settlement---Reallocation-procedures>

5MS Settlements package – Estimates (Completed)

- Final report and procedures published on 4 April 2019
- <http://aemo.com.au/Stakeholder-Consultation/Consultations/Five-Minute-Settlement---NEM-Settlement-Estimates-Policy>

5MS Settlements package – Revisions (Completed)

- Final report and procedures published on 13 May 2019
- <http://aemo.com.au/Stakeholder-Consultation/Consultations/Five-Minute-Settlement---NEM-Settlement-Revisions-Policy>

5MS Settlements package – Auction Participation Agreement

- Draft determination and procedures will be published 25 June 2019
- Final report and procedures scheduled for publication on 5 August 2019
- <http://aemo.com.au/Stakeholder-Consultation/Consultations/Five-Minute-Settlement---Auction-Participation-Agreement>

Consultations - Settlements

5MS Settlements package – TNSP Negative Settlements Residue Procedure

- Final procedures will be published 14 June 2019
- Not a Rules consultation document
- <http://aemo.com.au/Stakeholder-Consultation/Consultations/Five-Minute-Settlement---NEM-TNSP-Negative-Settlements-Residue-Procedure>

5MS Settlements package – Prudentials - Credit Limit Procedures

- Draft determination and procedures will be published 20 June 2019
- Final report and procedures scheduled for publication on 16 August 2019
- Proposed changes include 5MS amendments that are administrative in nature, and amendments to season definitions moving the month of April under the winter season (effectively removing the shoulder 1 Maximum Credit Limit (MCL) review)
- <https://www.aemo.com.au/Stakeholder-Consultation/Consultations/Five-Minute-Settlement---Credit-Limit-Procedures>

Mandatory restrictions under five-minute settlement

- AEMO is considering the approach to the mandatory restrictions (MR) and whether to keep the regime status quo i.e. operate mandatory restrictions on a 30-minute basis rather than a 5-minute basis from 1 July 2021
- Context:
 - MR have never been used, jurisdictions have provided funding in support of RERT
 - MR framework is currently under review as part of the AEMC's *Investigation into intervention mechanisms and system strength in the NEM*
- Benefits:
 - reduce system changes/costs, particularly if the investigation recommends that MR are changed or repealed
- Procedure impact: Minor terminology changes to *Mandatory Restrictions Offers procedure* (SO_OP_3713).

Dispatch procedures update (non-rules)

Michael Sanders

Non-rules dispatch guides – consultation approach update

- There are 12 dispatch procedures or guides that will commence consultation in June and July. These are non-rules consultation documents with minor amendments proposed to implement 5MS, and other general improvements to improve document clarity.
- Consultation approach will involve publishing the draft procedures for one round of comment, then the final procedures will be published. Any received comments will not be published but any broad themes will be communicated to the PWG.
- AEMO published six documents on **Thursday 6 June 2019** for comment. These procedures were previously targeted for release in May, the minor delay was to finalise the consultation approach. Documents are available for comment until **Friday 28 June 2019**.
- The remaining documents will be published in July/August.
- All consultation documents can be accessed on the AEMO consultation page [here](#).

Non-rules dispatch guides – consultation schedule

Document Title	Package	Draft procedures	Submissions due	Final procedures
Guide to Intervention Pricing	3. Dispatch - Pricing	May - June	Jun	Jul
Guide to Market Suspension Pricing Schedule				
Guide to Administered Pricing				
Demand Terms in EMMS Data Model	4. Dispatch - Miscellaneous	May - June	Jun	Jul
Guide to Mis-Pricing Information				
Automated procedures for identifying intervals subject to review				

Update: Power system operations

Sujeewa Rajapakse

Timeline for operational procedure changes (previous report to PWG)

Category 1: Consulted procedures require changes

Category 2: Published procedures require changes

Category 3: AEMO internal procedures

Category 4: Consulted documents require changes

Category 5: Published documents require changes

1 Dec 2019
NER 11.103.2

Jan 2020

Jan 2021

Summary of changes to operational procedures and published documents

Category 1

- Following procedures require a NER consultation before amending
 - SO_OP_3717 Procedure for the Dispatch and Activation of Reserve Contracts. **Update:** Final determination and updated procedure will be finalised in Sep 2019 (already underway for other changes)
 - SO_OP_3713 – Mandatory Restriction Offers will be finalised in Q4 2019, timing dependent on MR approach

Category 2

- Other Operational procedures requiring minor terminology changes
 - **Update:** new target date for finalising 5MS procedure updates is end of Oct 2019

Category 3

- There are 24 AEMO internal procedures requiring minor terminology changes, updating as BAU

Category 4

- There are 9 consulted documents that are being updated as BAU, minor terminology changes

Category 5

- There are 22 documents not requiring consultation, progressively updated for minor terminology changes

Power system operations – communication on procedure updates

- Approach to engaging with the PWG / dispatch focus group on non-rules consultation documents:
 - Publish draft procedures for one round of comment on 5MS web page, then the final procedures will be published.
 - Any received comments will not be published but any broad themes will be communicated to the PWG.
 - Operations Planning Working Group (consisting of AEMO and TNSP operations management) will also be advised of procedure changes when draft versions are available.
- Operational procedure changes that require Rules Consultations
 - Standard consultation approach – publish on AEMO consultation pages and formal notice to participants
 - 5MS stakeholders also notified through program channels e.g. emails to PWG giving links to consultation documents

Debrief on reconciliation support workshop

Blaine Miner

Debrief on reconciliation support workshop

- Full house!
 - In attendance:
 - AEMO Metering and Settlements experts from both an operational and systems perspective
 - Mainly Retailers and some Generators
 - Strong cross section of both operational and system experts
 - No Distributors or Meter Service Providers were in attendance (no nominations received)
- Objectives of the workshop:
 - To communicate how market settlements and reconciliations occurs today
 - To discuss current pain points faced by market participants
 - To communicate how AEMO expects to perform market settlements in a 5MS/GS environment
 - To pre-emptively identify potential issues industry may face either transitioning to or in a 5MS and GS environment
 - To identify potential opportunities in minimising/managing these potential issues
- Focused on 7 main elements:
 - Maintain and Receive Standing and Meter Data
 - Settlement Load Aggregations and Profiling
 - Spot Prices and MLFs
 - Settlement Cycles and Settlement Case IDs
 - Settlement Report and Tax Invoice
 - RM Reports, DI Data and EMMS Data Model
 - MSATS Browser Interface

Debrief on reconciliation support workshop

Element	Key Takeaways	Pain Points	Opportunities
<p>Maintain and Receive Standing and Meter Data</p>	<ul style="list-style-type: none"> - All connection points to be maintained in MSATS come 1 July 2021 (to support UFE publication), including first tier and non-contestable unmetered load NMIs - AEMO have identified over 30 unique MSATS Standing Data Scenarios which needs to be accommodated for to support GS calculations - A number of New NMI Classification Codes will need to be introduced to ensure accurate settlement outcomes - Due to GS requirements, updates to LR and FRMP fields will be required in some situations - LRs will no longer have access to first tier lost and boundary metering data - Changes to the delivery of metering data to AEMO and associated datastreams 	<p>Meter data: Meter data versioning issues</p> <p>Standing data management: Delays in participants updating MSATS standing data</p>	<p>To include the MDP version date/time stamps, used in AEMO NEM Settlement calculations, in the applicable RM reports</p>

Debrief on reconciliation support workshop

Element	Key Takeaways	Pain Points	Opportunities
Settlement Load Aggregations and Profiling	<ul style="list-style-type: none"> - Introduction of new profiles to support 15 and 30-minute meter reads from 1 July 2021 - 2 approaches being adopted: one for controlled load sample meters and one for non-controlled load meters 	LRs having to profile all first tier accumulation meter reads	To consider what information can be provided by AEMO to assist with this issue
Spot Prices and MLFs	<ul style="list-style-type: none"> - Trading interval for spot prices to align to dispatch i.e. 5-minute - No changes expected for the treatment of MLFs 	None identified	None identified
Settlement Cycles and Settlement Case IDs	<ul style="list-style-type: none"> - No changes expected regarding Settlement cycles and Settlement Case IDs - 1 July occurs mid trading week - AEMO systems will be able to handle both 30-minute (up until 30 June 2021) and 5-minute (from 1 July 2021) - One Settlement Case ID and tax invoice will be created for the transition week 	Question raised regarding the appropriateness of the current settlement cycles during the early stages of UFE	Non identified – Procedure supporting Settlement Cycles had been recently consulted on and no changes had been adopted

Debrief on reconciliation support workshop

Element	Key Takeaways	Pain Points	Opportunities
Settlement Report and Tax Invoice	<ul style="list-style-type: none"> - It is expected that a new column will appear in the settlement report (SR) displaying the apportioned UFE in the energy transaction section (energy values only, dollar values will not be included) - No explicit financial settlement of UFE until GS go-live on 6 February 2022 - On the transition week, one SR will be produced as per the current process 	Retailers mentioned that they need to provide customers 6mths notice for any price structure changes (potentially 12mth lead time required to allow for system development)	None identified
RM Reports	<ul style="list-style-type: none"> - 4 new participant facing RM reports will be developed - 9 existing reports will be modified - 3 will be retired (due to lack of use) 	2 significant system changes in the space of 7mths	Potential for AEMO to publish 5 and 30-minute data/RM Reports to assist with this transition
Data Interchange and EMMS Data Model	<ul style="list-style-type: none"> - 5-minute settlement data interchange reports will use the same table names and structures as existing 30-min feeds, with the definition of PeriodID changing from a 30-min period (1 to 48) to a 5-min period (1 to 288). - Current proposal is to add this indicator to the "DayTrack" table, with a column name of "Trading_Interval_Length". DayTrack is the parent table for all NEM settlement runs, with a primary key of SettlementDate/SettlementRunNo. - Separate UFE, AGE, and ADME amounts in the SetCPData table on a per-TNI, per-interval basis. 	Lack of clarity/information around tying back line items in the statement and/or the SR report, to specific tables and columns in the EMMS Data Model.	AEMO is considering providing a mapping document describing the relationships between line items on the statement, sections of the SR report, and the EMMS data model.

Debrief on reconciliation support workshop

Element	Key Takeaways	Pain Points	Opportunities
MSATS Browser Interface	<ul style="list-style-type: none"> - No new functionality expected in the MSATS Browser interface - Participants will however be able to view interval metering data at the resolution provided by the MDPs to AEMO 	None identified	None identified
Other – UFE	<ul style="list-style-type: none"> - UFE will be published by AEMO between 1 July 2021 – 5 Feb 2022 but that UFE would not be included in Settlement statements/tax invoices until 6 Feb 2022 - The Exact format as to how UFE will be included in the SR is still to be finalised - UFE will be recalculated and reallocated for each settlement cycle - AEMO mentioned and discussed some of the likely contributors to UFE: incorrect meter configuration (CT ratios), illegal connections, technical losses, profiling related issues, etc. - Changes in UFE between settlement cycles should provide visibility around some of these contributors e.g. the impact of MDP forward estimates on profiling outcomes - The quantification of these contributors would result in actionable activities e.g. targeted rollout of 5-minute meters, reducing issues associated to profiling 	Quality and quantity of data to support the first report on the 1 March 2022 may be a constraint	None identified

Metering package #2

David Ripper

Metering Consultations Overview

- Package 1 –
 - 5MS Only
 - Contained 5 procedures all with an effective date of 1 July 2021
 - Met Part A, Met Part B, MDFF Spec, Meter Data Provision and Glossary & Framework
- Package 2 – Co-consultation
 - ICFs
 - Contains 8 procedures with an effective date of May 2020
 - 5MS/GS/Changes in the delivery of metering data to AEMO
 - Contains 12 procedures with various effective dates
 - 4 with an effective date of Dec 2020
 - To allow for transitional periods for changes in the delivery of metering data to AEMO
 - 7 with an effective date of Feb 2022
 - 1 with an effective date of Late 2019

How Does It All Fit Together....?

Legend	
Package 1 - 5MS	
Package 2 - ICFs	
Package 2 - 5MS/GS	

Procedure	Effective Date				
	2019	May-20	Dec-20*	Jul-21	Feb-22
Metrology Part A		v6.05		v7.0	v7.1
Metrology Part B		v6.1		v7.0	v7.1
MDFF Specification			v2.1	v2.0	
Meter Data Provision				v2.0	
Glossary & Framework				v3.0	v3.1
MDM Procedures			v4.0		
MDM Format & Upload Process			v2.0		
NMI Procedure					v7.0
CATS		v4.8			v5.0
WIGS		v4.8			v5.0
RoLR Processes Part A					v2.0
SLP MDP		v1.8	v2.0		
SLP MP		v1.4			
SLP ENM		v1.1			
Exemption - Meter Install. Malfunctions		v1.1			
Exemption - Data Storage	v1.0				

Metering Package 2

- Metering Package 2 focuses on implementing:
 - The Five-Minute Settlement (5MS) Rule - for items not considered in Package 1
 - The Global Settlement (GS) Rule
 - Changes to the delivery, format and content of the meter data files sent to AEMO, as identified in the Metering Package 1 consultation.

Deliverable	Indicative date
Issues Paper published	20 May 2019
Submissions due on Issues Paper	24 June 2019
Draft Report published	5 August 2019
Submissions due on Draft Report	19 August 2019
Final Report published	30 September 2019

- Key items discussed in the Consultation Paper:
 - Implementing and transitioning to the changes in delivery of metering data to AEMO
 - Treatment of Non-contestable Unmetered Loads
 - Proposed changes to Quantity and Quality metering data requirements
 - The introduction of the “Exemption Procedure: Metering Provider Data Storage Requirements”

Implementing and transitioning to the changes in delivery of metering data to AEMO

- No later than 1 July 2021:
 - MDFF NEM12 files to be the required file format for all interval metering data being delivered to AEMO
 - NEM12 interval metering data to be delivered at the register level and as per the meter's configuration i.e. 5, 15 or 30-minute intervals
 - Import and Export Active energy (kWh) and Import and Export Reactive energy (kVarh) will be required to be sent to AEMO, where applicable
 - All new records created in the CNDS table are to be created at the register level e.g. E and B
 - AEMO is proposing to include transitional arrangements in the relevant procedures, to allow MDPs to move to the new arrangements prior to that date
- Procedures affected to implement these changes:
 - Service Level Procedure: Metering Data Provider Services
 - Includes details regarding MDPs having to deliver to AEMO all Datastreams related to settlements ready data and any other metering data configured in the metering installation to support UFE calculations for all connection points the MDP is responsible for
 - Meter Data File Format Specification NEM12 & NEM13
 - Enables AEMO as being a recipient of MDFF files
 - MDM File Format and Load Process
 - Specifies the:
 - Processing, loading and validation of MDFF files
 - Removal of references to Net values and Net datastreams
 - Removal of requirements for MDPs to aggregate metering data to 30-minute intervals
 - Removal of the option to send MDMF to AEMO for interval metering data by 1 July 2021
 - National Metering Identifier Procedure
 - Removes references to Net data

Treatment of Non-contestable Unmetered Loads

- GS Requirements
 - Non-contestable unmetered loads to be processed through MSATS
 - The load profile and size of these loads to be agreed upon by the customer, DNSP, retailer and AEMO in accordance with AEMO's updated metrology procedures and unmetered load guidelines
 - AEMO to update the unmetered load guidelines and metrology procedures in accordance with the rule's consultation procedures.
- Consultation questions:
 - How should non-contestable unmetered loads be processed and maintained in MSATS?
 - Should non-contestable unmetered loads with photoelectric (PE) cells be treated in a similar manner to Type 7 unmetered loads?
 - Should non-contestable unmetered loads which do not have photoelectric (PE) cells be treated differently to those that do? If yes, how should these loads be treated?
 - What should be considered in creating and assigning non-contestable unmetered NMIs in MSATS?
 - What would be the most accurate methodology for calculating and applying a load profile to non-contestable unmetered loads?
- Key procedures affected by the inclusion of these loads:
 - Met Part A and Met Part B
 - CATS Procedures Principles and Obligations
 - SLP – MDP and
 - NMI Procedure

Proposed changes to Quantity and Quality metering data requirements

- Remotely read interval metering now provides data for over a quarter of all small customers in the NEM, and this number is increasing daily
- AEMO considers that it is important for the requirements for delivery of settlement ready data to reflect these changes in the metering landscape and ensure that the settlements process is enhanced as a result.
- Current requirements do not delineate between remotely read meters and manually read meters nor do they reflect an expected level of improvement in both the quantity and quality of settlement ready data delivered during the settlement cycle e.g. Final vs Revision 1 (R1) vs Revision 2 (R2).

Aspect	Preliminary	Final	Revision 1 (R1) or 4 month	Revision 2 (R2) or 6 month
Quantity of Settlements Ready Data	98%	98%	98%	98%
Quantity of Settlements Ready Data with 'A' or 'F' quality flag	-	-	98%	98%

Metering Data Type	Aspect	Preliminary	Final	Revision 1 (R1)	Revision 2 (R2)
Remotely Read Metering Data	Quantity of Settlements Ready Data	98%	100%	100%	100%
	Quality of Settlements Ready Data with 'A' or 'F' quality flag	95%	98%	100%	100%
Manually Read Metering Data	Quantity of Settlements Ready Data	99%	99%	100%	100%
	Quality of Settlements Ready Data with 'A' or 'F' quality flag	-	-	95%	100%

Exemption Procedure: Metering Provider Data Storage Requirements

- In accordance with the NER and procedures authorised by the NER, a Metering Provider must ensure that a metering installation includes facilities for storing interval energy data for a period of:
 - At least 35 days if the metering installation is registered as a type 1, 2, 3 or 4 metering installation
 - At least 200 days or such other period as specified in the metrology procedure if the metering installation is registered as a type 4A or type 5 metering installation.
- Under the 5MS rule AEMO must publish a procedure for applying for an exemption from these storage requirements. AEMO may only exempt metering installations installed prior to 1 July 2021 that are types 1, 2, 3, and a subset of 4
- To fulfil its obligation under the 5MS Rule, this consultation includes the proposed new exemption procedure for Metering Provider data storage requirements procedure, for the metering installations set out in clause 7.8.2(a2).
- Consultation questions:
 - Do you believe that AEMO's proposed exemption procedure clearly articulates the conditions and process for applying for a data storage exemption?
 - Are there any other aspects of the exemption process and criteria that need to be reflected in the procedure?

Other Proposed Procedure Changes

- General changes to Procedures:
 - Modification and/or removal of references to Local Retailer (LR), first-tier and second-tier, including notification and objection rule requirements
 - Inclusion of Embedded Network Local Retailer (ENLR) references
 - Inclusion of Unaccounted for Energy (UFE) references
 - Removal of Change Reason Code 6400 and 6401 relating to the change of a LR
 - Inclusion of five new NMI Classification Codes – “BULK”, “DHYBRID”, “NCONUML”, “THYBRID” and “XBOUNDARY” to accommodate various settlement calculations in a GS environment
 - Inclusion of a new Metering Installation Type Code – “NCONUML” to accommodate the appropriate allocation of non-contestable unmetered loads.
- NEM ROLR Processes – Part A MSATS Procedure
 - Inclusion of Average Daily Load (ADL) in the ROLR/FRMP NMI List report to support Retailers being able to appropriately quote and hedge for ROLR related customers

General questions

Emily Brodie

Forward meeting plan

Emily Brodie

Upcoming meetings

- Procedures Working Group meetings:
 - Friday 12 July 2019
- Procedures Focus Groups:
 - Metering Focus Group – Friday 14 June 2019
- Next Systems Working Group
 - Monday 17 June 2019
- Next Executive Forum
 - TBC
- Next Program Consultative Forum
 - Thursday 4 July 2019
- 5MS Meetings and Forum Dates:
<http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement>