

5MS Procedures Working Group #8

Tuesday, 12 March 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

Agenda

NO	TIME	AGENDA ITEM	RESPONSIBLE
Preliminary matters			
1	10:00am – 10:10am	Welcome, introduction and apologies	Emily Brodie (AEMO)
2	10:20am – 10:35am	Minutes and actions from previous meeting	Emily Brodie (AEMO)
Matters for noting			
3	10:35am – 10:50am	Procedures workstream update	Emily Brodie, Austin Tan (AEMO)
Matters for discussion			
4	10:50am – 11:05am	Dispatch – debrief on dispatch focus group	Michael Sanders (AEMO)
5	11:05am – 11:10am	Dispatch – miscellaneous package addendum	Michael Sanders (AEMO)
6	11:10am – 11:20am	Update on IEC recommendation regarding B2B procedures update for 5MS	Meghan Bibby (AEMO)
7	11:20am – 11:50am	Metering procedure update - debrief on metering focus group - package 3 introduction - update on consultation timings	David Ripper, Blaine Miner (AEMO)
Other business			
8	11:50am – 12:00noon	Forward meeting plan and general questions	Emily Brodie (AEMO)

Minutes and actions from previous meeting

Emily Brodie

Responses to PWG actions (1)

	Topic	Action	Response
1.8.1	Metering Procedures	<p>The metering focus group and the SWG are to investigate whether there are data volume delivery constraints because of 5MS or global settlements with the current delivery timeframes.</p> <p>PCF and PWG to be informed of progress.</p> <p>Under discussion and will inform PCF and PWG of developments.</p>	<p>Discussed at MFG, ongoing</p> <p>AEMO has performed some initial analysis which has confirmed that file sizes up to 10MB can be accommodated by AEMO systems. However, issues have been identified with the MSATS Browser in instances where files contains a large number of transactions, Windows Explorer/Chrome issue. Feedback has been provided to the MFG membership to focus their analysis, not only on size, but also the combination of file size and transaction volumes.</p>
5.6.1	DER Program	AEMO to update PWG on any possible impacts of the DER program to the 5MS program	No change. AEMO's co-ordination approach will be discussed in this meeting
7.2.1	Settlement procedures	PWG to provide feedback on TNSP Negative Settlements Residue Procedure consultation approach	Two responses received (Ergon, Plus ES), both supportive and no issues were raised. AEMO will proceed as planned with the TNSP Negative Settlements Residue Procedure consultation.
7.3.1	Other	AEMO to circulate meetings calendar and consultation calendar when available	Complete – to be discussed in this meeting
7.4.1	5MS Transition	PWG to provide feedback on 5MS high-level transition plan	One detailed response (Origin)

Responses to PWG actions (2)

	Topic	Action	Response
7.6.1	Settlement procedures	PWG to provide feedback on Auction Participation Agreement consultation approach	<p>Four responses received (Ergon, Origin, Plus ES, Stanwell), all supportive.</p> <p>Stanwell requested further clarification on which version of the APA will be consulted on for 5MS changes. The APA version that will be consulted on is the version released on 24 January 2019 to allow for secondary SRA trading. Available at: http://aemo.com.au/-/media/Files/Stakeholder_Consultation/Consultations/NEM-Consultations/2019/SRA/SRA_Settlements_Residue_Auction_Rules_29_01_19.pdf</p>
7.7.1	Prudentials procedures	PWG to provide feedback on Credit Limits Procedure consultation approach	AEMO is now considering further amendments to the CLP and will likely follow a two round consultation. AEMO will advise the PWG when more details are available.
7.9.1	Other	AEMO to advise PWG on outcome of investigations relating to participant data provision requirements and AEMO publication requirements that come into effect concurrently on the commencement date.	Complete – to be part of 5MS implementation rule change request and will be discussed at this meeting
7.9.2	Metering Focus Group	AEMO to circulate formal invitation for Metering Focus Group and consider a new call for nominations.	Complete. This matter was raised at the MFG on Monday 4 March. The MFG has been asked to consider the appropriateness of the membership on an ongoing basis.
7.10.1	Other	PWG to advise AEMO on level of interest in a reconciliation and profiling workshop, and also propose any relevant agenda items.	2 participants (Momentum and Origin) have formally stated their interest in the workshop.

Procedures workstream update

Emily Brodie

Procedures workstream status

	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	Jun-19	Aug-19	
3. Metering - Miscellaneous*	Jul-18	Mar-19	n/a	Mar-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	Apr-19	n/a	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	n/a	Apr-19	May-19	
DISPATCH						
1. Dispatch - Bids/Offers*	Jul 18	Jul 18 ongoing	n/a	Feb 19	Mar 19	
2. Dispatch - Spot market	Sep-18	Oct 18 ongoing	Jan-19	Apr-19	Jul-19	
3. Dispatch - Pricing	Aug-18	Aug 18 ongoing	Aug-18	Dec-18	Jul-19	
4. Dispatch - Miscellaneous*	Jan-19	Feb-19	n/a	n/a	Jun-19	
POWER SYSTEM OPS						
1. Operations - Miscellaneous*	TBA	Apr 19 ongoing	n/a	n/a	Jul-19	

TIMING
Started and on track
Started late
Overdue

CONTENT
No issues
Issues
Severe issues

Responsibility for updating bids/offers document moved to SWG as it is mainly a technical guide. Delayed because seeking additional stakeholder feedback on precedent technical specifications.

Procedures workstream meetings

- Next PWG scheduled for Friday 12th April, including:
 - Power system operations – overview of approach to 5MS documentation updates
 - Settlements – debrief on settlements focus group
- Upcoming focus groups:
 - Settlements focus group – Wednesday 20th March, Melbourne

Update: 5MS implementation rule change request

- Throughout the second half of 2018, AEMO sought feedback from 5MS stakeholders on any areas of the 5MS Rule that needed amending to facilitate implementing the rule.
- Five areas were identified:
 1. Determining marginal loss factors (MLFs) at 30-minute or shorter intervals
 2. Accommodating fast-start plant in pre-dispatch
 3. Process for amending the spot market operations timetable
 4. Correction to list of AEMO procedures for 5MS
 5. Timing for AEMO to publish unaccounted for energy (UFE) data
- Rule change request will be submitted to the AEMC by mid-March.
- AEMO considers the proposed changes to be non-controversial. It is therefore seeking to have the request assessed under the 'expedited' rule change process.

Consultations - metering

5MS Metering package 1

- Submissions on Draft Report were due 15 February 2019
 - AEMO received 15 submissions (including two late submissions) from Retailers, LNSPs, Meter Providers, Meter Data Providers and intending participants.
- Final report to be published 22 March 2019
- <http://aemo.com.au/Stakeholder-Consultation/Consultations/Five-Minute-Settlement---Metering-Procedure-Changes-Package-1>

Settlement consultations update

5MS Settlements package – Estimates

- Second state submissions closed on 5 March 2019
- Final report and procedures will be published 4 April 2019

5MS Settlements package – Revisions

- Draft Report & Notice of second stage consultation will be published 22 March 2019
- Second stage submissions due 5 April 2019

5MS Settlements package – Reallocations

- Final notice and procedures published 28 February 2019
- 3 submissions received after one round of consultation, all supportive of AEMO's recommendations. No further changes to the draft procedures were made

Settlement consultations update

5MS Settlements package – Auction Participation Agreement

- Consultation will commence on 22 March 2019, first stage submissions due 27 May 2019
- Final Report and procedures scheduled for publication on 5 August 2019

5MS Settlements package – TNSP Negative Settlements Residue Procedure

- Not a Rules consultation document
- Proposed changes are administrative. Consultation will be single round and targeted at TNSPs.
- Consultation will commence on 1 April 2019, submissions due 3 June 2019 and final procedures will be published 14 June 2019

5MS Settlements package – Prudentials - Credit Limits Procedure




- Previously, a single round consultation was proposed since 5MS related changes is expected to be administrative
- AEMO is now investigating further changes to the CLP in line with participant feedback to simplify the prudentials process
- Consultation will likely to be two rounds, likely to commence in April/May
- AEMO will advise the PWG when further details are available

Procedures co-ordination: Meetings calendar

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INDUSTRY FORUMS AND WORKING GROUPS

AEMO is committed to ensuring that stakeholders have the opportunity to engage and participate in the ongoing planning, development, and operation of Australian energy markets. To facilitate this, AEMO has established working groups made up of a range of energy stakeholders to discuss issues and share information. These are AEMO's current industry forums and working groups:

Wholesale Meetings

Retail Meetings

IT meetings

Other meetings

WA Meetings and Activities

- [NEM Wholesale Consultative Forum](#)
- [Gas Wholesale Consultative Forum](#)
- [Settlement Residue Committee](#)
- [Settlement Managers Working Group](#)



Industry meetings calendar





A calendar of upcoming wholesale and retail meetings is provided below. However, changes or additions to meeting dates are communicated primarily through email distribution lists for the relevant industry forum or working group, so this calendar should be used as supplementary to email distribution lists only.


- [Consultative Forum Meetings Calendar - 19 February 2019 \(33 KB .xlsx\)](#)

Dates of IT and other meetings can be found on the relevant working group information page.

For more information, please contact:
StakeholderRelations@aemo.com.au

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Procedures co-ordination: Meetings calendar

2019 Consultative Forums and 5MS Meetings

Last updated: 22 February 2019

This calendar is subject to change, and is only intended as supplementary to email distribution lists, which will remain the primary means of notifying industry of new meeting/changes of date.

JANUARY							FEBRUARY							MARCH							APRIL						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
30	31	1	2	3	4	5	27	28	29	30	31	1	2	24	25	26	27	28	1	2	31	1	2	3	4	5	6
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9	7	8	9	10	11	12	13
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	31	1	2	24	25	26	27	28	1	2	24	25	26	27	28	29	30	28	29	30	1	2	3	4
3	4	5	6	7	8	9	3	4	5	6	7	8	9	31	1	2	3	4	5	6	5	6	7	8	9	10	11
MAY							JUNE							JULY							AUGUST						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
28	29	30	1	2	3	4	26	27	28	29	30	31	1	30	1	2	3	4	5	6	28	29	30	31	1	2	3
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24
26	27	28	29	30	31	1	23	24	25	26	27	28	29	28	29	30	31	1	2	3	25	26	27	28	29	30	31
2	3	4	5	6	7	8	30	1	2	3	4	5	6	4	5	6	7	8	9	10	1	2	3	4	5	6	7
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7	29	30	1	2	3	4	5	27	28	29	30	31	1	2	1	2	3	4	5	6	7
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
29	30	1	2	3	4	5	27	28	29	30	31	1	2	24	25	26	27	28	29	30	29	30	31	1	2	3	4
6	7	8	9	10	11	12	3	4	5	6	7	8	9	1	2	3	4	5	6	7	5	6	7	8	9	10	11

Legend	
GRCF	ERCF
B2BWG	ERMCF
IEC	
5MS	
National Public Holiday	
State Public Holiday*	

*Relevant state has been marked in a comment. NT, TAS, ACT holidays have not been marked.

Procedures co-ordination: Metering

INITIATIVE:	FIVE MINUTE SETTLEMENT			NMI STANDING DATA	DER REGISTER	METERING INSTALLATION TIMEFRAMES	B2B	MSATS WISH-LIST
AFFECTED PROCEDURES (listed alphabetically – please add in any missing documents)	Pack 1	Pack 2	Pack 3					
Accreditation Checklists - Metering Providers, Metering Data Providers & Embedded Network Managers			X					
CATS Procedures Principles and Obligations		X		X		X		X
Exemption Procedure - Metering Provider Data Storage Requirements		X						
Guide to MSATS and B2B Terms			X	X			X	
Guide to the Role of the Metering Coordinator (MC)			X					
Guidelines to the National Measurement Act			X					
MDM File Format and Load Process		X						
Meter Data File Format Specification NEM12 & NEM13	X							
Meter Data Provision Procedure	X							
Metering Data Management (MDM) Procedures		X						
Metrology Procedure Part A	X	X						X
Metrology Procedure Part B	X	X						X
MSATS -CATS Hints and Tips and NMI Discovery			X	X				
MSATS Procedures		X						
National Metering Identifier		X						
Procedures for the Management of WIGS NMIS		X		X				
Retail Electricity Market Glossary and Framework	X	X		X				
Service Level Procedure: Metering Data Provider Services		X						X
Service Level Procedure: Metering Provider Services		X						
Special Sites and Technology Related Conditions within the National Electricity Market			X					
Standing Data for MSATS			X	X				X
Understanding Load Profiles Published from MSATS			X					
Unmetered Load Guideline - Determination of Device Load and Annual Energy Consumption for Unmetered Device Types			X					
B2B Procedure Customer and Site Details Notification Process							X	
B2B Procedure Service Order Process						X	X	
B2B Procedure Meter Data Process							X	
B2B Procedure One Way Notification Process							X	
B2B Guide							X	
B2B Procedure Technical Delivery Specification							X	
DER Information Guidelines					X			
Technical Guide to Bulk Data Tool in MSATS				X				
NMI Standing Data Schedule				X				



Procedure co-ordination: Cross-program co-ordination

- 2019 Gas and Electricity Retail Consultations calendar, including 5MS program, to be published shortly (next slide)
- Intended only as a rough guide of when AEMO will hold consultations. Dates are indicative only and are subject to change without notice.
- Authoritative consultation dates continue to be published either through the relevant distribution lists for the consultative/program forums or in the Consultations section of AEMO's website:
<https://www.aemo.com.au/Stakeholder-Consultation>
- Our business SMEs are second line of defence for identifying procedures subject to multiple changes e.g. some dispatch procedures were consulted on for both 5MS and other rule changes at once.

Procedures co-ordination: Consultations calendar

2019 Gas and Electricity Retail Consultations

Last updated: 4 March 2019

This spreadsheet is indicative only. Please refer to AEMO's website for authoritative consultation dates.

Last updated: 4 March 2019					
This spreadsheet is indicative only. Please refer to AEMO's website for authoritative consultation dates.					
Gas Retail Consultations					
IN002/16 - GDH RMP changes (QLD,NSW/ACT and SA)					
IN006/17 - Harmonise RMP SA (SA only)					
IN012/17 - Deregistered MIRN status (SA only)					
IN014/17 - Remove the text "using the sum..." (SA only)					
IN004/18 - Forecast to actual sunshine hours and change of weather station (SA only)					
IN009/18 - GDH transitional arrangements (QLD, NSW/ACT and SA)					
IN001/19 - High/low meter tolerance test (NSW/ACT only)					
IN002/19 - GDH Retail Guidelines (QLD, NSW/ACT and SA)					
IN005/18 - Estimated consumption for meter removal (QLD, NSW/ACT, VIC and SA)					
IN010/18 - Exempt seller regime (All expect WA)					
IN001/19W - Transition Deed Clause 8 provisions (WA only)					
IN004/18W - Complete MIRN Listing (WA only)					
IN004/19W - WAGRMA (WA only)					
IN006/18W - Requirements around EIC (WA only)					
IN002/19W - Reduce regulatory administration for EIC (WA only)					
IN001/18W - Clause 325, notice of alleged procedure breach (WA only)					
IN003/19W - Holistic tidy up of RMP WA (WA only)					
IN007/18W - PPC -> GRCF in RMP WA (WA only)					
IN002/15W - New Service Order Job Enquiry Code (JEC) (WA only)					
IN005/19W - Retrospective EIC (WA only)					
SMS Consultations					
Metering 1 - Metering Data & Metrology					
Metering 2 - MSATS and SLPs					
Metering 3 - Miscellaneous					
Settlements 1 - Settlements Residue Auctions					
Settlements 2 - Estimations					
Settlements 3 - Miscellaneous					
Settlements 4 - TNSP Negative Settlement Residue					
Settlements 5 - Prudentials					
Settlements 6 - Reallocations					
Dispatch 1 - Bids/Offeres					
Dispatch 2 - Pricing					
Dispatch 3 - Spot Market					
B2B Electricity Retail Consultations					
Metering Installation Timeframes					
Post-POC					
Life Support Status/NOMW definitions					
MSATS, Metering Services, and Metrology Electricity Retail Consultations					
NMI Standing Data					
Metering Installation Timeframes					
MSATS Requests					
Legend					
Gas	Electricity	SMS			
GMI	Initial consult	Consultation paper			
PPC	Draft det	Draft det			
IIR	Final det	Final det			
AEMO Decision	IEC Recom				
AEMO/ERA Review	AEMO Review	AEMO Review			

Dispatch – debrief on dispatch focus group

Michael Sanders

Dispatch focus group 15 Feb 2019

1. Principles for changes to dispatch systems are largely agreed
 - 30-minute pre-dispatch to use the last 5-minute bid in each half hour
 - ST PASA to use the 5-minute bid with the lowest availability in each half hour
 - 5-minute pre-dispatch to be extended beyond the minimum Rules requirements
2. Other issues to be addressed before the start of 5-MS
 - Dispatch instructions arrive after the start of the interval
 - Very fast start plant may be excluded from real-time dispatch
3. Emphasis now shifting to documenting, designing and building (SWG)
 - Draft technical specification available on website
<http://www.aemo.com.au/-/media/Files/Electricity/NEM/5MS/Systems-Workstream/EMMS-Technical-Specification--Five-Minute-Settlement-v005.pdf>
 - Draft bidding format document to be published soon
 - Work on web bidding interface continues → CEC webinar

Dispatch – miscellaneous package - addendum

Michael Sanders

Dispatch – miscellaneous package - addendum

Procedure	Description	HLIA
8. Automated procedure for identifying dispatch intervals subject to review	Defines identification of dispatch results that should be reviewed in real-time	Terminology changes

Update on IEC recommendation

Meghan Bibby

IEC recommendation on B2B procedures for 5MS

- Transitional Rule 11.103.2(b) requires the IEC make a B2B Recommendation on any changes required due to the 5MS Amending Rule by 1 July 2019.
- The IEC requested the B2BWG to investigate if there were any impacts anticipated from the implementation of 5MS on the B2B Procedures.
- The B2BWG identified one potential change stemming from the current requirement which limits the allowable file size of the MDFF to 1 MB.
- As yet AEMO has not yet consulted or decided on an increased MDFF file size upper limit. If increased it will be applied to both B2M & B2B.
- The B2BWG assessed the impact and concluded that there are no current direct impacts to the B2B Procedures from the 5MS Rule.
- Based on the assessment by the B2BWG, the IEC made a B2B Recommendation of 'no change' at this stage to the B2B Procedures due to the 5MS Rules.

Metering procedures update

David Ripper and Blaine Miner

Metering Procedures Update

- Metering Focus Group (4 March) Debrief
- Metering Procedure Changes Package 3 – HLIAs
- Consultation Timings

Metering Focus Group (4 March)

Debrief

- Agenda
 - Metering Procedure Changes Package 1
 - Provision of information and responses to concerns raised in the Draft Determination submissions
 - Global Settlements (GS)
 - Overview of GS and things for the MFG to start considering
 - Metering Procedure Changes Package 2
 - High level impact assessments – 5MS, GS and Meter Data Delivery to AEMO
 - Metering Procedure Changes Package 3
 - High level impact assessments – 5MS, GS and Meter Data Delivery to AEMO
 - File Size and Communications Capability
 - AEMO analysis and findings to date regarding meter data message sizing versus transaction volumes within the messages
 - Settlement Reconciliation Support
 - AEMO seeking interest in AEMO running a workshop which focuses specifically on reconciliation related activities in a 5MS & GS environment

Metering Focus Group (4 March)

Debrief

- AEMO positions regarding Package 1 material issues

Material Issue	AEMO Position
Profiling approach for 15 and 30-minute interval meters	Stakeholders broadly supported AEMO's proposed profiling approach and have not identified a preferred alternative for 5MS go-live, 1 July 2021. AEMO acknowledges that as more five-minute meter data becomes available, alternative profiling arrangements may become more viable, potentially leading to more granular load profiles being applied e.g. solar and business customer load profiles.
Optical port and the volume of meter data storage	AEMO agrees that the timeframe to download 90 days of interval metering data, currently stated in Metrology Procedure: Part A clause 3.2(c), may not be achievable for 5-minute metering data. AEMO proposes to change the download to 90 seconds or less per Datastream.

Metering Focus Group (4 March)

Debrief

Material Issue	AEMO Position
Changes to the delivery of meter data to AEMO	<p>Meter data file format: From 1 July 2021:</p> <ul style="list-style-type: none">• MDFF NEM12 files to be the required file format for all interval meter data being delivered to AEMO• MDFF NEM13 files to be supported by AEMO<ul style="list-style-type: none">• AEMO to continue to support and accept MDMF files for Basic meter reads <p>Meter data Resolution: From 1 July 2021:</p> <ul style="list-style-type: none">• NEM12 Interval meter data to be:<ul style="list-style-type: none">• Delivered at the register level• As per the meter's configuration i.e. 5, 15 or 30-minute meter data intervals <p>Meter data frequency: From 1 July 2021:</p> <ul style="list-style-type: none">• Meter data to be delivered to AEMO on a daily basis<ul style="list-style-type: none">• AEMO is not seeking to amend any obligations regarding the current B2B Provide Meter Data or Verify Meter Data processes<ul style="list-style-type: none">• Under the assumption that the MDP's current processes are robust enough to ensure that any change in meter data is sent to AEMO and market participants consistently and efficiently.

Metering Focus Group (4 March)

Debrief

Material Issue	AEMO Position
Changes to the delivery of meter data to AEMO	<p data-bbox="541 483 932 570">Meter data granularity: From 1 July 2021:</p> <ul data-bbox="541 578 2032 1182" style="list-style-type: none"><li data-bbox="541 578 2032 711">• Import and Export Active energy (kWh) and Import and Export Reactive energy (kVarh) will be required to be sent to AEMO<ul data-bbox="625 670 1940 711" style="list-style-type: none"><li data-bbox="625 670 1940 711">• All other forms of measurement are not required to be delivered to AEMO.<li data-bbox="541 719 2032 808">• AEMO is not proposing any changes to the current responsibilities of MDPs and MPs regarding the management of the CNDS and CRI standing data tables.<li data-bbox="541 816 2032 1092">• All new records created in the CNDS table are to be created at the register level e.g. E and B.<ul data-bbox="625 906 2032 1182" style="list-style-type: none"><li data-bbox="625 906 2032 1092">• Existing Net datastream records can remain active post 1 July 2021 until an update to the Datastream record is required e.g. meter replacement. Where an update is required to a CNDS record, the Net datastream is to be inactivated and any new datastreams records are to be created at the register level.<li data-bbox="625 1101 2032 1182">• Datastreams associated to import and export reactive energy e.g. Q and K do not need to be created in the CNDS table. <p data-bbox="541 1239 1079 1279">Meter Data Exception Handling:</p> <ul data-bbox="541 1287 2032 1464" style="list-style-type: none"><li data-bbox="541 1287 2032 1464">• AEMO to retain the existing MDM validation/response process (MDMR notification and RM11 reports), however, where any party identifies a meter data issue, that requires a new version or resend of meter data to be delivered, all recipients are to receive this information.

Metering Focus Group (4 March)

Debrief

Material Issue	Doc References	Details
Changes to the delivery of meter data to AEMO	NER 7.10.1(a)(7):	(a) Metering Data Providers must provide metering data services in accordance with the Rules and procedures authorised under the Rules, including: (7) the delivery of metering data and relevant NMI Standing Data to AEMO for settlements
	Service Level Procedure: Metering Data Provider	Services 2.4.2(b) : The MDP must ensure that information in the metering register is: (b) provided on request to persons entitled to have access to that information in accordance with clause 7.15.5(c) of the NER;
	NER 7.15.5(c)(5):	Access to data (c) Except as specified in paragraphs (d) or (e), only the following persons may access or receive metering data, settlements ready data, NMI Standing Data, and data from the metering register for a metering installation: (5) AEMO and its authorised agents; and
	NER 10 – Glossary	energy Active energy and/or reactive energy.

Metering Procedure Changes

Package 3 - HLIAs

Procedure	Description	HLIA
Unmetered Load Guideline - Determination of Device Load and Annual Energy Consumption for Unmetered Device Types	Guideline is to provide industry with assistance in determining the device load or annual energy consumption of an unmetered device to support proposals to modify the NEM load table.	Section 10 to be updated to 5-minute data from 30-minute Update document to include references to unmetered off-market loads
Standing Data for MSATS	Provides a detailed description of the data items populated in the MSATS NMI Standing Data tables and contains information on the type of data, a brief description of each data item and whether the input of the data is mandatory.	Changes to CATS_NMI_DATA_STREAM table: Data Stream Suffix, Data Stream Type, Profile Name Remove references as required concerning: Local Retailer, 1st Tier and 2nd Tier Review Sections 14 and 15 related to data stream status for tier 1 and tier 2 NMIs.
MSATS -CATS Hints and Tips and NMI Discovery	Hints and tips on different transactions in CATS, including explanations of common errors and rejections, tips on reports and answers to common questions arising from a failed NMI Discovery Search.	Update to advise that Tier 1 NMIs must also have datastream status set to 'A'

Metering Procedure Changes

Package 3 - HLIAs

Procedure	Description	HLIA
Understanding Load Profiles Published from MSATS	Provides an overview of the load profiles produced by MSATS which AEMO publishes on the website.	<p>Replace 30-minute references with 5-minute</p> <p>Replace 48 intervals with 288</p> <p>Update sample RM20 to reflect 288 intervals</p> <p>Changes for converting 15/30-minute and basic meter data to 5-minute resolution</p> <p>Review references to first tier and second tier</p>
Accreditation Checklists - Metering Providers, Metering Data Providers & Embedded Network Managers	The Accreditation Checklists are questions applicants are required to complete as part of the qualification process set out in the Qualification Procedure.	Changes to the MDP checklist where the meter data files format requirement are to change for the delivery to MSATS.

Metering Procedure Changes

Package 3 - HLIAs

Procedure	Description	HLIA
Guidelines to the National Measurement Act	The purpose of this Guideline is to provide clarification of the requirements of the National Measurement Act in relation to its application on metering installations.	No changes identified at this stage
Special Sites and Technology Related Conditions within the National Electricity Market	Describes situations where special site or technology related conditions exist in the NEM, defines the different categories of these situations and provides a list of these.	No changes identified at this stage
Guide to MSATS and B2B terms	This guide assists participants of the Retail National Electricity Market (NEM) to understand the terms used in the retail electricity market procedures and the Market Settlement and Transfer Solution (MSATS) participant IT system.	No changes identified at this stage
Guide to the Role of the Metering Coordinator (MC)	Provides information on the role and responsibilities of MCs under the NER and procedures authorised under the NER.	No changes identified at this stage

Consultation Timings

- Package 1 – Final Determination publishing date – Friday 22 March 2019
- Package 2 – Indicative First Stage publishing date – Friday 26 April 2019
 - Meeting planned for late March regarding the treatment and provisioning of Non-market unmetered loads under GS
- Package 3 – Timing of publishing is still being considered
 - Dependent on understanding various elements of non-market unmetered loads

General questions

Emily Brodie

Forward meeting plan

Emily Brodie

Upcoming meetings

- Procedures Working Group meetings:
 - Friday 12 April 2019
 - Tuesday 14 May 2019
- Procedures Focus Groups:
 - Settlements focus group – Wednesday 20 March 2019, **Melbourne**
- Next Systems Working group
 - Monday 18 March 2019
- Next Program Consultative Forum
 - Thursday 4th April 2019
- Next Executive Forum
 - TBA: targeting May
- 5MS Meetings and Forum Dates:
<http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement>