

METERING DATA PROVISION PROCEDURES

18 November 2016

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AGENDA SLIDE

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4. Relevant NER/WA Clauses
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All the analysis in these slides is based on:

- The Metering Competition Rule change (mainly chapter 7) that becomes effective on 1 December 2017.
- The draft WA Rules as at 10 October 2016.
- Draft rules (10 October) adopt the National Electricity Market (NEM) customer access to data arrangements, excluding changes needed for requirements under the National Electricity Retail Rules (NERR) which will be included in jurisdictional instruments.

SCOPE AND ASSUMPTIONS (CONT.)



- The procedures and instruments amended and created as a consequence of this Rule change become effective on 1 December 2017.

BACKGROUND AND OBJECTIVE OF THE MDPP



- The MDPP was an initiative from the AEMC's Power Of Choice (PoC) Review and the rule change was proposed by COAG Energy Council.
- The policy intent:

“...easier for customers to access their electricity consumption data so that it is in an understandable format, received in a timely manner and charged at a reasonable price or free of charge... This will empower consumers to make decisions that best suit them and help them save on their energy costs.”

AEMC Final Determination Executive Summary

BACKGROUND – POWER OF CHOICE (CONT.)



- The Metering Data Provision Procedures (MDPP) is to establish the minimum customer information to be provided by Retailers and Distributors to customers or their authorised representative.
- This is to allow customers to more effectively compare and assess their current electricity arrangements.
- December 2014: new rules (NER and NERR) effective.
- The procedure was published 1 September 2015 and was effective of 1 March 2016.

- Electricity Industry Customer Transfer Code (2004) covers information provision between a retailer and distributor including:
 - Standing data and historical consumption data.
 - Submitting a data request.
 - Verifiable consent.
 - Withdrawal and invalid requests.
 - Network operator's obligations.
 - Retailer's obligations.
 - Charges.

- No provisions identified that require a Retailer or Distributor to provide a retail customer or their authorised representative their metering data.

- The MDPP provisions are in the National Electricity Rules (NER) and obligations on Retailers and Distributors are in the NERR.
- Clause 7.7 of the NER (see draft WA clause 7.15.5(d) allows a retail customer or customer authorised representative to access its metering data from a Retailer or Distributor if they request it.

- Clause 7.16 of the NER (see draft WA clause 7.14) requires AEMO to establish, maintain and publish an MDPP. The key areas to be included in the MDPP are:
 - For interval metering data and accumulation metering data, the manner and form in which a retail customer's metering data must be provided.
 - Timeframes for Retailers and DNSPs to respond to a request from a retail customer or customer authorised representative.
 - The minimum delivery method for the requested metering data.

RELEVANT NER/DRAFT WA DEFINITIONS (CONT.)



- Draft WA Chapter 10 (and the NER) includes the following relevant definitions for the metering data provision procedures:

- *Metering data provision procedures*

“Procedures for the provision of metering data requested under rule 7.14, developed and published by AEMO.”

- *Retail customer*

“A small customer or a large customer.”

RELEVANT NER/DRAFT WA DEFINITIONS (CONT.)



- *Small customer*

“(a) In a participating jurisdiction where the National Energy Retail Law applies as a law of that participating jurisdiction, has the meaning given in the National Energy Retail Law.

(b) Otherwise, has the meaning given in jurisdictional electricity legislation.” (Note, to be defined in jurisdictional electricity legislation.)

- *Large customer*

“(a) In a participating jurisdiction where the National Energy Retail Law applies as a law of that participating jurisdiction, has the meaning given in the National Energy Retail Law.

(b) Otherwise, has the meaning given in jurisdictional electricity legislation.” (Note, to be defined in jurisdictional electricity legislation.)

RELEVANT NER/DRAFT WA DEFINITIONS (CONT.)



- *Customer Authorised Representative*

“A person authorised by a retail customer to request and receive information under Chapter 7 on the retail customer's behalf.”

RELEVANT NERR CLAUSES - TO CONSIDER FOR WA INSTRUMENTS?

- For NECF jurisdictions, obligations on Retailers and Distributors are in the NERR, some examples:
 - Clauses 56A(1) and 86A(1), on a customer's request, requires a Retailer or Distributor to provide 2 years information on the customers energy consumption as required by the MDPP.
 - Clauses 56A(3) and 86A(3) Allows the Retailer or Distributor to charge the small customer or customer authorised representative a reasonable charge if:
 - The information has been requested more than four times in a 12-month period.
 - The information is in a different manner/form than set out in the MDPP.
 - A customer authorised representative requests information for more than one small customer.

RELEVANT NERR CLAUSES - TO CONSIDER FOR WA INSTRUMENTS? (CONT.)



- Clauses 56B and 86B – a small customer or customer authorised representative can request up to two years historical billing or energy consumption information from their previous retailer.

MDPP CONTENT – REQUESTING THE RETAIL CUSTOMER’S METERING DATA



- The MDPP requires Retailers and Distributors to:
 - Identify and publish information:
 - They require to verify the identity and relevant consents needed from retail customers and customer authorised representatives.
 - About the way a request for metering data can be made, i.e., email, writing or telephone.
 - How the Retailer or Distributor will provide a retail customer’s meter data.

- If a metering data request does not meet a Retailer's or Distributor's verification requirements:
 - For one retail customer request, they must respond within three business days from receipt of a request.
 - For up to 100 retail customer requests, they must respond within six business days from receipt of a request.
 - For more than 100 retail customer requests, they must negotiate the timeframe.

MDPP CONTENT – REQUESTING THE RETAIL CUSTOMERS DATA (CONT.)



- The Retailer or Distributor's notice to the retail customer or the customer authorised representative must advise:
 - That the required verification or consent information was not provided.
 - The metering data request is closed.
 - A new metering data request with complete verification information must be provided.

- Delivery timeframes commence from the date the metering data request is received.
- Retailers and Distributors must use reasonable endeavours to deliver retail customer request(s):
 - One - within 10 business days.
 - Two to 100 (in a single business day) – within 20 business days.
 - More than 100 (in a single business day) – within the timeframe agreed by the retailer and customer authorised representative.

- If a customer authorised representative's request includes more than one retail customer request and any requests do not meet verification requirement - the Retailer or Distributor must provide the metering data for those retail customers that did meet the verification requirements within the delivery timeframe.

MDPP CONTENT – DATA DELIVERY METHOD AND NAMING CONVENTION



- Summary data format – a Retailer or Distributor must provide this electronically (PDF, unless otherwise agreed) or physically, this depends on the retail customer or customer authorised representatives request.
- Detailed data format - a Retailer or Distributor must provide this electronically (CSV, unless otherwise agreed).
- PDF summary data file that is delivered electronically must, at a minimum, the following naming convention:

NMI_MeteringDataStartDate_MeteringDataEndDate_FileProvisionDate_FileProviderName_FileType.pdf

For example: 8000000000_20140301_20160301_20160305130000_File Provider Name_SUMMARY.pdf.

- CSV detailed data file name must, at a minimum, the following naming convention:

NMI_MeteringDataStartDate_MeteringDataEndDate_FileProvisionDate_FileProviderName_FileType.csv

For example: 8000000000_20140301_20160301_20160305130000_File Provider Name_DETAILED.csv.

MDPP CONTENT – DATA DELIVERY METHOD AND NAMING CONVENTION



- Summary data format – a Retailer or Distributor must provide this electronically (PDF, unless otherwise agreed) or physically, this depends on the retail customer or customer authorised representatives request.
- Detailed data format - a Retailer or Distributor must provide this electronically (CSV, unless otherwise agreed).
- PDF summary data file that is delivered electronically must, at a minimum, the following naming convention:

NMI_MeteringDataStartDate_MeteringDataEndDate_FileProvisionDate_FileProviderName _FileType.pdf

For example: 8000000000_20140301_20160301_20160305130000_File Provider Name_SUMMARY.pdf.

- CSV detailed data file name must, at a minimum, the following naming convention:

NMI_MeteringDataStartDate_MeteringDataEndDate_FileProvisionDate_FileProviderName _FileType.csv

For example: 8000000000_20140301_20160301_20160305130000_File Provider Name_DETAILED.csv.

MDPP CONTENT – ACCUMULATED SUMMARY DATA FORMAT



- The accumulated metering data summary must, at a minimum, include:
 - The nature and extent of *energy* usage.
 - A diagrammatic and numerical representation of the usage information.
- The accumulated summary data format must, at a minimum, include:
 - National Metering Identifier (NMI).
 - Meter serial number.
 - Unit of measure for the Energy Flow Type – kWh.
 - Data quality indication – does it include estimated metering data.
 - The start and end of the meter reading period.
 - Energy flow types – general supply usage, controlled load usage and generation.

MDPP CONTENT – ACCUMULATED SUMMARY DATA FORMAT (CONT.)



- Conditions:
 - File must be based on validated *metering data*.
 - File ordered by Date – oldest date at the top of the file and most recent date at the bottom of the file.
 - Date Format – DD/MM/YYYY.

MDPP CONTENT - ACCUMULATED METERING DATA SUMMARY FORMAT EXAMPLES

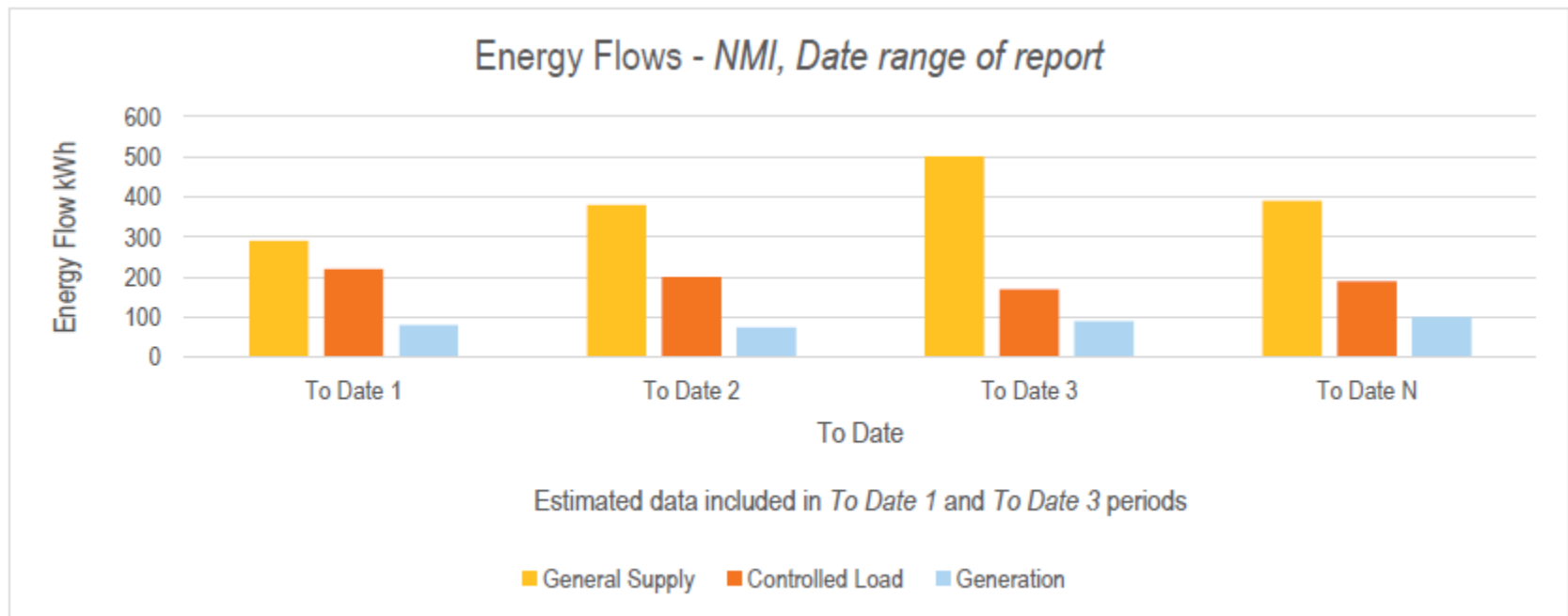


- Example table for a connection point with general supply usage, controlled load usage and separately measured generation energy flows.

NMI	Meter Serial Number	UOM	From Date	To Date	General Supply	Controlled Load	Generation
6xxxxxxxxx	123xxxx	kWh	From Date 1	To Date 1	290	220	80
6xxxxxxxxx	123xxxx	kWh	From Date 2	To Date 2	380	200	75
6xxxxxxxxx	123xxxx	kWh	From Date 3	To Date 3	500	170	90
6xxxxxxxxx	123xxxx	kWh	From Date N	To Date N	390	190	100

MDPP CONTENT - ACCUMULATED METERING DATA SUMMARY FORMAT EXAMPLES

- Example table for a connection point with general supply usage, controlled load usage and separately measured generation energy flows.



MDPP CONTENT – INTERVAL SUMMARY DATA FORMAT



- The Interval Metering Data Summary must, at a minimum, include:
 - The nature and extent of energy usage for daily time periods.
 - Usage or load profile over a specified period.
 - A diagrammatic representation of the information above.
- The Interval Metering Data Summary must, at a minimum, include:
 - National Metering Identifier (NMI).
 - Meter serial number.
 - Unit of measure for the Energy Flow Type – kWh.
 - Data quality indication – does it include estimated metering data.
 - The start and end of the meter reading period.
 - Energy flow types – general supply usage, controlled load usage and generation.
 - Maximum demand, at a minimum, based on General Supply energy usage.

MDPP CONTENT – INTERVAL SUMMARY DATA FORMAT



- The Interval Metering Data Summary must include:
 - Maximum demand, at a minimum, based on General Supply energy usage.
 - Average daily load profile:
 - To be based, at a minimum, on General Supply and Controlled Load energy flows.
 - To be produced from at least the 12 months of metering data from the date of the request or the period when the retailer or DNSP became responsible for the retail customer's metering installation, whichever is the lesser.
 - Retailers must include a summary of their retail customer's time of use structures or identify where information can be obtained for a retail customer to determine their specific time of use structure.

MDPP CONTENT – INTERVAL SUMMARY DATA FORMAT (CONT.)



- Conditions:
 - File must be based on validated *metering data*.
 - File ordered by Date – oldest date at the top of the file and most recent date at the bottom of the file.
 - Date Format – DD/MM/YYYY.

MDPP CONTENT – INTERVAL METERING DATA SUMMARY FORMAT EXAMPLES (CONT.)

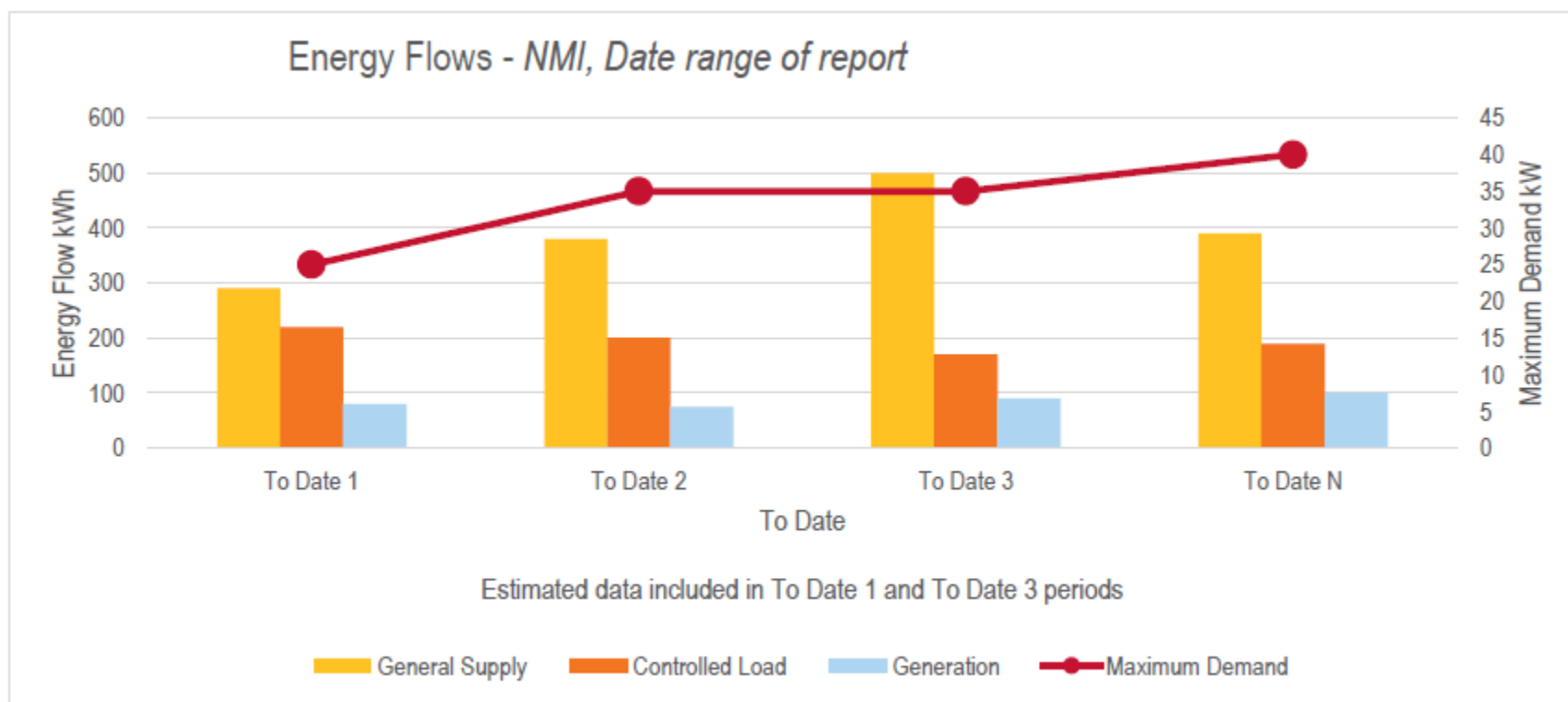


- Example data table for a connection point with general supply usage, controlled load usage and separately measured generation energy flows and maximum demand.

NMI	Meter Serial Number	UOM	From Date	To Date	General Supply	Controlled Load	Generation	Maximum Demand	Max. Dem. UOM
6xxxxxxxxx	123xxxx	kWh	From Date 1	To Date 1	290	220	80	25	kW
6xxxxxxxxx	123xxxx	kWh	From Date 2	To Date 2	380	200	75	35	kW
6xxxxxxxxx	123xxxx	kWh	From Date 3	To Date 3	500	170	90	35	kW
6xxxxxxxxx	123xxxx	kWh	From Date N	To Date N	390	190	100	40	kW

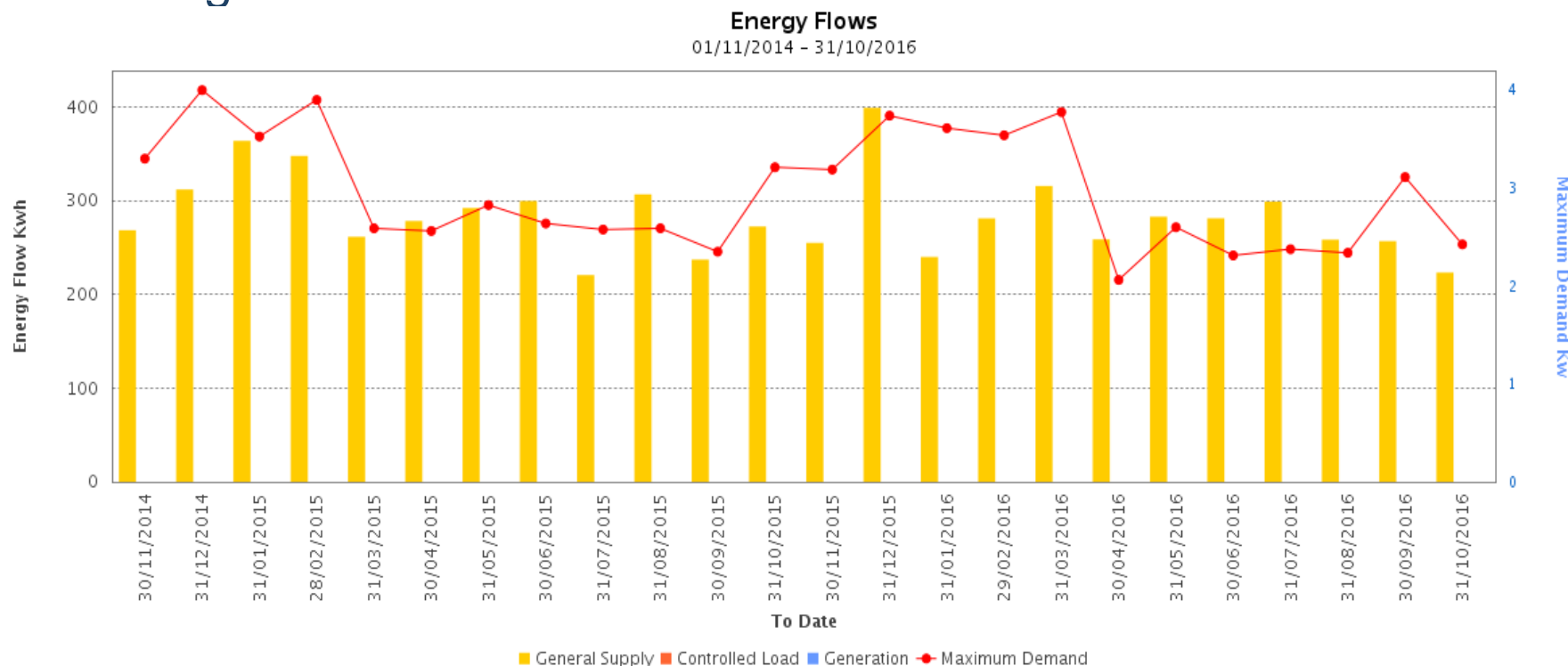
MDPP CONTENT – INTERVAL METERING DATA SUMMARY FORMAT EXAMPLES (CONT.)

- Example data table for a connection point with general supply usage, controlled load usage and separately measured generation energy flows and maximum demand.



MDPP CONTENT – INTERVAL METERING DATA SUMMARY FORMAT EXAMPLES (CONT.)

- Example data table for a connection point with general supply usage and maximum demand.



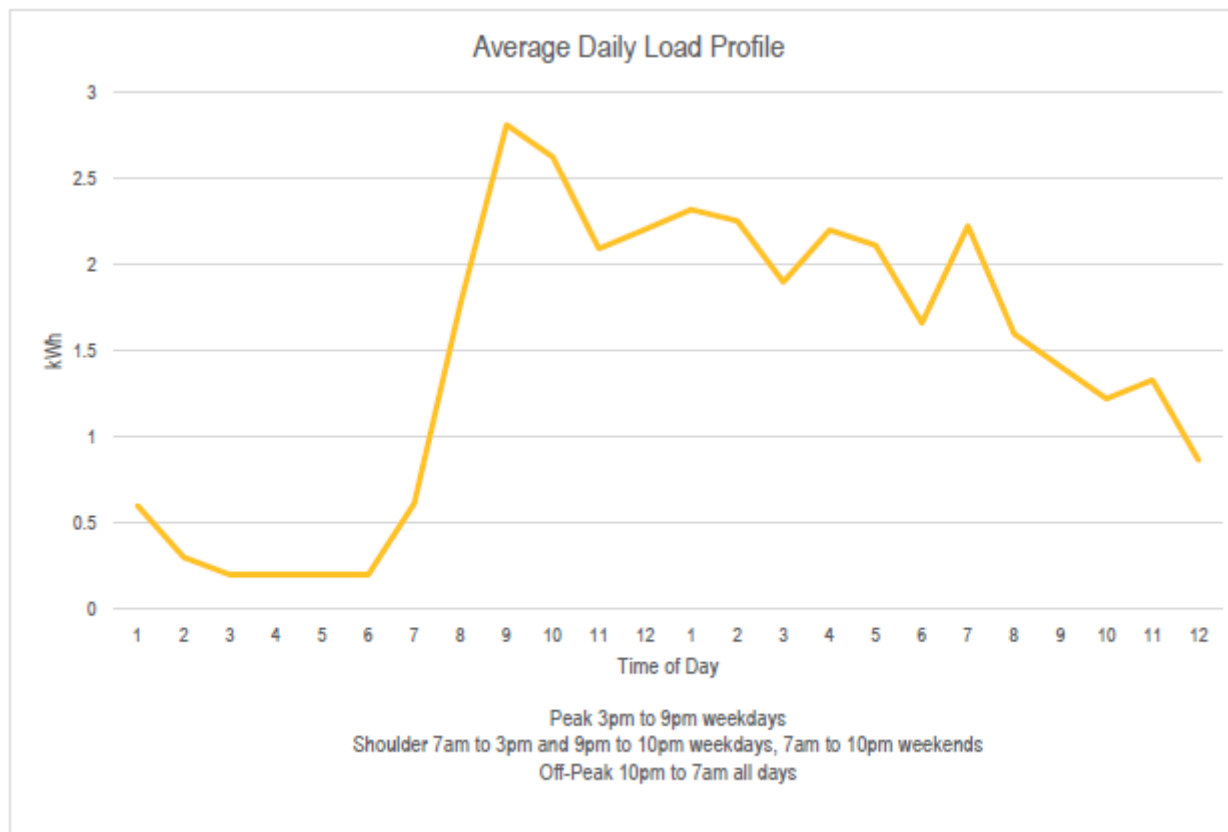
Note: Dates on the graph marked with '*' indicate substituted data

MDPP CONTENT – INTERVAL METERING DATA

AVERAGE DAILY LOAD PROFILE EXAMPLE



- Example data table for a connection point with general supply usage, controlled load usage and separately measured generation energy flows and maximum demand.



MDPP CONTENT – DETAILED DATA FORMAT



- Only for interval metering data.
- The detailed data format must, at a minimum, be the 200 and 300 records of a NEM12 file and, where available, 400 records that comply with the Meter Data File Format Specification NEM12 & NEM13 (being discussed today).
- Retailers and DNSPs must make a NEM12 retail customer guide available that explains how the detailed data format is to be interpreted. This must explain how:
 - Usage
 - Generation
 - Controlled loadis represented in a detailed interval metering data file and provide examples of applications that can open the detailed interval metering data file.

MDPP CONTENT – DETAILED DATA FORMAT EXAMPLE



200	640XXXXX XXE1	E1	E1	E1		940798 KWH		30		
300	20141101	0.113	0.087	0.094	0.1	0.087	0.081	0.081	0.081	...
300	20141102	0.081	0.069	0.069	0.069	0.075	0.063	0.063	0.069	...
300	20141103	0.094	0.069	0.081	0.081	0.081	0.081	0.081	0.075	...
300	20141104	0.406	0.081	0.069	0.069	0.069	0.056	0.063	0.069	...
300	20141105	0.412	0.362	0.075	0.081	0.087	0.069	0.075	0.087	...
300	20141106	0.125	0.106	0.094	0.081	0.075	0.063	0.069	0.063	...
300	20141107	0.713	0.15	0.169	0.125	0.119	0.119	0.113	0.113	...
...
300	20161029	0.094	0.075	0.081	0.075	0.075	0.056	0.056	0.087	...
300	20161030	0.087	0.069	0.075	0.081	0.069	0.075	0.075	0.069	...
300	20161031	0.069	0.063	0.063	0.063	0.069	0.069	0.056	0.063	...

EXAMPLES OF DETAILED DATA FORMAT RETAILER CUSTOMER GUIDE



Organisation	Title	Location
AusGrid (Distributor)	“Interpreting Interval Data”	http://www.ausgrid.com.au/Common/Customer-Services/Homes/Meters/meter-data-access/Interpreting-interval-data.aspx#.WBIfI_40PIU
ERM Power (Retailer)	Customer data request & NEM12 data guide	http://www.ermpower.com.au/wp-content/uploads/2016/02/Customer-Data-Request-NEM12-Data-Guide.pdf
Momentum (Retailer)	Guide to Interpret an Interval Meter Data Report	http://www.momentumenergy.com.au/mwg-internal/de5fs23hu73ds/progress?id=kweSHa7-mXWLVXZZPeA9ufe6-UBVh4b0wgSLzk7O5IE,&dl
United Energy (Distributor)	Retail Customer Guide to Metering Data Reports: Power of Choice Consumer Access to Data	https://uecdn.azureedge.net/wp-content/uploads/2015/09/Retail-Customer-Guide.pdf

- A Retailer or Distributor can provide an alternative summary or detailed data format where:
 - The retail customer or their customer authorised representative requests it and informed consent is obtained.
 - Where it exceeds the minimum metering data requirements.
- Retailers and Distributors must make a retail customer guide available to assist retail customers to understand and interpret an alternative detailed data format.

- Similar to the NEM12 guide, this must explain how:
 - Usage
 - Generation
 - Controlled load

is represented in a detailed interval metering data file and provide examples of applications that can open the detailed interval metering data file.

ASSUMPTIONS AND NEXT STEPS

- Based on the WA draft Rules as at 10 October 2016, WA adopts the MDPP. The MDPP will need to be updated to reflect this.
- AEMO expects that the jurisdictional instruments will include requirements on Retailers and Distributors to provide and support the retail customer information included in the MDPP data formats.
- AEMO expects to commence consultation on this Procedure in March 2017.

THE METERING DATA PROVISION PROCEDURES (MDPP)



- The MDPP is available at:

<http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/-/media/C911BABC13C743D3906310238275D9F1.ashx>.

RELATED PROCEDURES

- MDPP related procedures include:

Procedure Title	Location
Metering Data File Format Specification NEM12 & NEM 13	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/-/media/7D007A17C0374D3EBE680C04CF888305.ashx
National Metering Identifier Procedure	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/-/media/EBA9363B984841079712B3AAD374A859.ashx

QUESTIONS



For further questions and feedback: WAMRPRetail@aemo.com.au