



METERING DATA PROVISION PROCEDURES

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VERSION RELEASE HISTORY

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0.1	30 April 2015	Metering Data Provision Procedures – Strawman for consultation
0.2	6 July 2015	Metering Data Provision Procedures – Draft for consultation
1.0	1 September 2015	Initial publication of Metering Data Provision Procedures
<u>2.0</u>	<u>1 July 2021</u>	<u>Updated for National Electricity Amendment (Five Minute Settlement) Rule 2017 No. 15</u>

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1. INTRODUCTION

1.1. Purpose and scope

The purpose of these Procedures is to establish the minimum requirements for the manner and form in which *retailers* and DNSPs must provide *metering data* to a *retail customer*, or their *customer authorised representative*, in response to a request for *metering data* from the *retail customer* or *customer authorised representative*.

These Procedures apply to *retailers* and ~~*Distribution Network Service Providers (DNSPs)*~~ responding to requests from a *retail customer*, or their *customer authorised representative*, for their *metering data* from the *retail customer's metering installation*, made under NER clause 7.15.5(d) and 7.15.5(f)(7)(a)(7).

These Procedures must specify the:

- Manner and form in which the *retail customer's metering data* must be provided, including:
 1. For *interval metering data*, a detailed data format and summary data format.
 2. For *accumulated metering data*, a summary data format.
- Timeframes for *retailers* and DNSPs to respond to requests made by a:
 1. *Retail customer*.
 2. *Customer authorised representatives*.
- Minimum delivery method for the requested *metering data*.

These are the ~~*Metering Data Provision Procedures*~~ (Procedures) made under clause 7.146 of the National Electricity Rules (NER).

These Procedures have effect for the purposes set out in the NER. The NER and the *National Electricity Law* (NEL) prevail over these Procedures to the extent of any inconsistency.

1.2. Definitions and interpretation

The Retail Electricity Market Procedures – Glossary and Framework:

- (a) is incorporated into and forms part of this Procedure; and
- (b) should be read with this Procedure.

1.2.1. Glossary

The words, phrases and abbreviations set out in the table below, when used in these Procedures, have the meanings set out opposite them.

Terms defined in the NEL or the NER have the same meanings in these Procedures unless otherwise specified in this clause. Those terms are intended to be identified in these Procedures by italicising them, but failure to italicise a defined term does not affect its meaning.

Term	Definition
Accumulated metering data - summary data	This includes: Total volume of <i>energy</i> for each <i>energy</i> flow type for the specified time period. Diagrammatic representation of energy volumes for each energy flow type for the specified time period. Each <i>meter</i> reading date for each energy flow type for the specified period of time. From Date and To Date for the specified time period

Commented [AEMO1]: Returned to MDPP as this term is only used in that Procedure. Refer to SMS Consolidated Participant Feedback Table 4 Item 17.



Term	Definition
Average Daily Load Profile	A load profile across a day based on the average of <i>interval metering data</i> for the period of the request for the <i>metering data</i> .
Controlled load	Controlled load applies to electricity usage that is separately metered and controlled by a party other than the customer. It is used for operating storage water heaters, thermal storage space heaters, and other approved fixed-wired appliances. <i>Controlled load energy usage values are positive in metering data files.</i>
Energy flow type	Energy flow over a period of time for which there is a separate <i>energy</i> measurement, e.g. General Supply, Controlled Load and Generation.
General supply	General light and power electricity usage (does not include controlled load usage).
Generation	Volume of <i>energy</i> generated by the <i>retail customer</i> , i.e. <i>energy</i> flow to the grid from the <i>connection point</i> . <i>Where the generated energy is measured separately from energy usage, the total generated energy volume is provided and is positive in value.</i> <i>Where the generated energy measurement is combined with energy usage values, the total generated energy volume is not provided and the energy usage values may be negative when excess generation occurs for a period.</i>
Interval metering data - summary data	This includes: Total volume of <i>energy</i> for each <i>energy</i> flow type for the specified time period. Diagrammatic representation of <i>energy</i> volumes for each <i>energy</i> flow type for the specified time period. From Date and To Date for the specified time period.
Interval metering data - detailed data	Detailed <i>interval metering data</i> file contains data records that comply with the Meter Data File Format Specification NEM12 & NEM13.
Maximum Demand	<ul style="list-style-type: none"> Maximum Demand (sometimes referred to as Capacity) is calculated by identifying the highest half hourly interval usage that occurs during each "To Date" period and multiplied by two to obtain the maximum demand expressed in kW. For 15 minute intervals, the highest 15 minute interval usage that occurs during each "To Date" period is identified and multiplied by four to obtain the maximum demand expressed in kW.
Nature	See <i>energy</i> flow type.
UOM	Unit of Measure – kWh (<i>energy</i>), kW (<i>demand/capacity</i>). Refer to clause 4.1 for format details.
Usage	Consumption of electrical <i>energy</i> .

Commented [AEMO2]: Returned to MDPP as this term is only used in that Procedure. Refer to 5MS Consolidated Participant Feedback Table 4 Item 17.

Commented [AEMO3]: Returned to MDPP as this term is only used in that Procedure. Refer to 5MS Consolidated Participant Feedback Table 4 Item 17.

Commented [AEMO4]: Returned to MDPP as this term is only used in that Procedure. Refer to 5MS Consolidated Participant Feedback Table 4 Item 17.

Commented [AEMO5]: Returned to MDPP as this term is only used in that Procedure. Refer to 5MS Consolidated Participant Feedback Table 4 Item 17.

Commented [AEMO6]: Returned to MDPP as this term is only used in that Procedure. Refer to 5MS Consolidated Participant Feedback Table 4 Item 17.

1.2.2. Interpretation

The following principles of interpretation apply to these Procedures unless otherwise expressly indicated:

- These Procedures are subject to the principles of interpretation set out in Schedule 2 of the NEL.
- References to time are references to Australian Eastern Standard Time.

1.3. Related documents

Additional information relevant for these Procedures can be found in the documents listed below. These documents are available on AEMO's website¹:

Title	Location
Retail Electricity Market Procedures – Glossary and Framework	
Metering Data File Format Specification NEM12 & NEM13	
National Metering Identifier Procedure	

2. IDENTITY VERIFICATION AND DATA DELIVERY TIMEFRAMES

- (a) *Retailers* and DNSPs must use reasonable endeavours to provide *metering data* to *retail customers* and *customer authorised representatives* within the delivery timeframes detailed in clauses 2.2 and 2.3.
- (b) Delivery timeframes do not include postal delivery time.

2.1. Verifying the identity of a retail customer or customer authorised representative

- (a) *Retailers* and DNSPs must identify and publish, at a minimum, the information below required from a *retail customer* or *customer authorised representative* who requests *metering data*.
 - i. Sufficient information to verify identity and relevant consents from *retail customers* and *customer authorised representatives*.
 - ii. The way in which a request for *metering data* can be made, e.g. email, writing, telephone, etc.
 - iii. The form in which the *metering data* will be provided by the *retailer* or DNSP, e.g. electronic, physical copy, etc.
- (b) It is the responsibility of *retailers* and DNSPs to determine what needs to be done to ensure their Privacy Act 1988 (Commonwealth) obligations have been met.
- (c) Where a *retailer* or DNSP receives a *metering data* request, related to one *retail customer*, and determines that the verification information provided does not include all verification information required by the *retailer* or DNSP, the *retailer* or DNSP must use reasonable endeavours to advise the *retail customer* or *customer authorised representative* within three *business days* of receiving the request for *metering data* that not all required verification information has been provided.
- (d) Where a *retailer* or DNSP receives a *metering data* request from a *customer authorised representative*, related to more than one but up to 100 *retail customers*, and determines that the verification information provided does not include all verification information required by the *retailer* or DNSP, the *retailer* or DNSP must use reasonable endeavours to advise the *customer authorised representative* within six *business days* of receiving the request for *metering data* that not all required verification information has been provided.

¹ <http://www.aemo.com.au>.

Field Code Changed

- (e) Where a *retailer* or DNSP receives a *metering data* request from a *customer authorised representative*, related to more than 100 *retail customers*, the timeframe for using reasonable endeavours to advise the *customer authorised representative* that the verification information provided does not include all verification information, required by the *retailer* or DNSP, must be agreed at the time the delivery timeframe is agreed under clause 2.3(c).
- (f) The *retailer* or DNSP notification, issued in accordance with clauses 2.1(c) and 2.1(d), must:
 - i. Advise the requestor that all required verification information was not provided in a manner that is consistent with the Privacy Act 1988 as determined by the *retailer* or DNSP.
 - ii. Advise that the request for *metering data* is closed.
 - iii. Advise that a new *metering data* request with complete verification information must be provided.
- (g) A new *metering data* request is deemed to exist when a *retail customer* or *customer authorised representative* provides the complete verification information to the *retailer* or DNSP, in accordance with clause 2.1(a).

2.2. Retail customer request

- (a) Where a *retail customer* requests their *metering data*, *retailers* and DNSPs must use reasonable endeavours to deliver the *metering data* to the *retail customer* within 10 *business days*. This delivery timeframe commences from the date a *metering data* request, that includes all verification information required by the *retailer* or DNSP, is received by the *retailer* or DNSP.

2.3. Customer authorised representative

- (a) Where a *customer authorised representative* requests *metering data* for one *retail customer*, *retailers* and DNSPs must use reasonable endeavours to deliver the *metering data* to the *customer authorised representative* within 10 *business days*. This delivery timeframe commences from the date a *metering data* request, that includes all verification information required by the *retailer* or DNSP, is received by the *retailer* or DNSP.
- (b) Where a *customer authorised representative* requests *metering data* for more than one but up to and including 100 *retail customers* in a single *business day*, *retailers* and DNSPs must use reasonable endeavours to deliver the *metering data* to the *customer authorised representative* within 20 *business days*. This delivery timeframe commences from the date a *metering data* request, that includes all verification information required by the *retailer* or DNSP, is received by the *retailer* or DNSP.
- (c) Where a *customer authorised representative* requests *metering data* for more than 100 *retail customers* in a single *business day*, the delivery timeframe must be agreed between the *retailer* or DNSP and the *customer authorised representative*.
- (d) Where a *retailer* or DNSP receives a *metering data* request related to more than one *retail customer*, and determines that the verification information provided for some *retail customers* does not include all verification information required by the *retailer* or DNSP, the *retailer* or DNSP must:
 - i. Within the timeframes specified in clauses 2.3(b) and 2.3(c), provide *metering data* for those *retail customers* for which all verification information has been ~~supplied~~ provided within the timeframes specified in clauses 2.3(b) and 2.3(c).
 - ii. Comply with clause 2.1(e) in relation to those *retail customers* for which not all verification information was ~~not~~ provided.

Commented [AEM07]: Refer to 5MS consolidated Participant feedback Table 5 Item 35.

3. DATA DELIVERY METHOD

- (a) *Retail customers or customer authorised representatives* may request *retailers* or *DNSPs* to provide detailed *metering data* or *summary metering data*.

3.1. Delivering summary data

- (b) The *retailer* or *DNSP* must provide the summary data electronically or physically to the *retail customer* or *customer authorised representative* whichever is requested by the *retail customer* or *customer authorised representative*.
- (c) Where a *retail customer* or *customer authorised representative* requests the summary data to be provided electronically, the summary data must be provided in a Portable Document Format (PDF), unless otherwise agreed with the *retail customer* or *customer authorised representative*.

3.2. Delivering detailed data

- (a) The *retailer* or *DNSP* must provide the detailed data electronically to the *retail customer* or *customer authorised representative*.
- (b) The detailed data must be constructed in a comma separated values (CSV) format, unless otherwise agreed with the *retail customer* or *customer authorised representative*.
- (c) Detailed data constructed in a CSV format may be delivered as a compressed file with a ".zip" extension if needed to manage file size of delivered data.

3.3. File naming conventions

- (a) PDF summary data file that is delivered electronically must, at a minimum, follow the naming convention detailed below and in clause 3.3(c).
- i. *NMI_MeteringDataStartDate_MeteringDataEndDate_FileProvisionDate_FileProviderName_FileType.pdf*
 - ii. Example:
8000000000_20140301_20160301_20160305130000_File Provider Name_SUMMARY.pdf
- (b) CSV detailed data file name must, at a minimum, follow the convention detailed below and in clause 3.3(c).
- i. *NMI_MeteringDataStartDate_MeteringDataEndDate_FileProvisionDate_FileProviderName_FileType.csv*
 - ii. Example
8000000000_20140301_20160301_20160305130000_File Provider Name_DETAILED.csv
- (c) File naming fields must use the following format.

Field Name	Description	Format
<i>NMI</i>	NMI for the connection point. Does not include check digit or NMI Suffix.	Char(10)
<i>MeteringDataStartDate</i>	Date at the start of the requested <i>metering data</i> period.	Date(8) (i.e. CCYYMMDD)
<i>MeteringDataEndDate</i>	Date at the end of the requested <i>metering data</i> period.	Date(8) (i.e. CCYYMMDD)



Field Name	Description	Format
<i>FileProvisionDate</i>	Date and time when the <i>metering data</i> file is produced.	DateTime(14) (i.e. CCYYMMDDhhmmss)
<i>FileProviderName</i>	Name of the organisation (i.e. <i>retailer</i> or <i>DNSP</i>) providing detailed or summary data file.	VarChar(15) (not case sensitive)
<i>FileType</i>	"SUMMARY" for both accumulated and interval summary files. "DETAILED" for an interval detailed file.	VarChar(10) (not case sensitive)

3.4. Number of metering data files to be provided

- (a) Subject to clause 3.4(b), *retailers* and *DNSPs* must provide a **single** *metering data* file in relation to a *retail customer's metering installation* for the requested period.
- (b) Where there has been a change of *metering installation* configuration during the period for which *metering data* is requested, the *retailer* or *DNSP* may provide a separate *metering data* file for each *metering installation* configuration period. A *metering installation* configuration change may include a change of data stream arrangement or a change from accumulated *metering* to interval *metering*.

Commented [AEMO8]: Refer to 5MS consolidated Participant feedback Table 5 Item 36.

4. DATA FILE CONTENT

- (a) *Retailers* and *DNSPs* must provide the following content, at a minimum, for each *metering data* file.

4.1. Field details – format and unit of measure

- (a) Data fields for detailed and summary *metering data* files must use these permitted values (a subset of units of measure detailed in the Metering Data File Format Specification NEM12 & NEM13). Note that the permitted values for unit of measure are not case sensitive.

Permitted values	Description	Format	Character length
kWh	Kilowatt hour (energy)	Numeric	15.43
kW	Kilowatt (demand/capacity)	Numeric	15.43

Commented [AEMO9]: Refer to 5MS consolidated Participant feedback Table 5 Item 39.

4.2. Accumulated metering data summary format

- (a) The *accumulated metering data* summary must, at a minimum, include:
 - i. The nature and extent of *energy* usage.
 - ii. A diagrammatic and numerical representation of the usage information.
- (b) Conditions that apply to all summary *accumulated metering data* files are:
 - i. File must be based on validated *metering data*.
 - ii. File ordered by Date – oldest date at the top of the file and most recent date at the bottom of the file.
 - iii. Date Format – DD/MM/YYYY.
- (c) Appendix A contains *accumulated metering data* summary examples of a tabulation and a diagrammatic representation of *energy* flows.

- (d) The summary data format for *accumulated metering data* provided by a *retailer* or a DNSP must, at a minimum, include the following information:
- i. National Metering Identifier (*NMI*).
 - A. NMI for the *connection point* does not include check-digit or NMI suffix.
 - ii. Meter Serial Number.
 - A. Multiple *meters* indicated by their respective *meter* serial numbers.
 - iii. Unit of Measure (UOM) for the Energy Flow Type – kWh.
 - iv. Data quality indication.
 - A. Provide, at a minimum, a statement indicating whether the *metering data* file contains estimated data and specifies which reading period(s) contain estimated data.
 - v. “To Date” for *accumulated metering data* (i.e. end of meter reading period).
 - A. Energy values from each *meter* to be published by “To Date”.
 - vi. “From Date” (i.e. start of meter reading period).
 - vii. Energy Flow Types:
 - A. General Supply usage – means *energy* flow from the grid to the *connection point*. (Note: Where the measurement of the *retail customer’s* generation is combined with the measurement of general supply usage, the general supply usage information is the net of usage and generation, i.e. usage values are positive for excess usage and negative for excess generation).
 - B. Controlled Load usage (only if applicable, i.e. if separately measured) – means *energy* flow from the grid to the *connection point*.
 - C. Generation (only if applicable, i.e. if separately measured) – means *energy* flow to the grid from the *connection point*.
- (e) *Retailers* and DNSPs are not limited in relation to any statement, disclaimer or other wording which they consider necessary to include with or be added to a summary *accumulated metering data* file.

4.3. Interval metering data summary format

- (a) The *interval metering data* summary to be provided by a *retailer* and DNSP must, at a minimum, include:
- i. The nature and extent of *energy* usage for daily time periods.
 - ii. Usage or *load* profile over a specified period.
 - iii. A diagrammatic representation of the information in (i) and (ii) above.
- (b) Conditions that apply to all summary *interval metering data* files are:
- i. File must be based on validated *metering data*.
 - ii. File ordered by Date – oldest date at the top of the file and most recent date at the bottom of the file.
 - iii. Date Format – DD/MM/YYYY.
- (c) Appendix B contains *interval metering data* summary examples of a tabulation of *energy* flows, a diagrammatic representation of *energy* flows, a diagrammatic representation of Maximum Demand and an Average Daily Load Profile.

- (d) The summary data format for *interval metering data* provided by a *retailer* or a DNSP must, at a minimum, include the following information:
- i. National Metering Identifier (*NMI*).
 - A. *NMI* for the *connection point* does not include check digit of *NMI* suffix.
 - ii. Meter Serial Number.
 - A. Multiple *meters* indicated by their respective serial numbers.
 - iii. Unit of Measure (UOM) for the Energy Flow Type – kWh.
 - iv. Data quality indication.
 - A. Provide, at a minimum, a statement indicating whether the *metering data* file contains estimated data and specify which reading period(s) contain estimated data.
 - v. "To Date", monthly for remotely read *interval metering data*. "To Date" for manually read *interval metering data* may be monthly or end of meter reading period.
 - A. Energy values from each *meter* to be published by "To Date".
 - vi. "From Date" (i.e. start of meter reading period).
 - vii. Energy Flow Types:
 - A. General Supply usage – means *energy* flow from the grid to the *connection point*. (Note: Where the measurement of the *retail customer's* generation is combined with the measurement of general supply usage, the general supply usage information is the net of usage and generation, i.e. usage values are positive for excess usage and negative for excess generation).
 - B. Controlled Load (only if applicable, i.e. if separately measured) – means *energy* flow from the grid to the *connection point*.
 - C. Generation (only if applicable, i.e. if separately measured) – means *energy* flow to the grid from the *connection point*.
 - viii. Maximum Demand is, at a minimum, based on General Supply *energy* usage and is defined in [Retail Electricity Market Procedures – Glossary and Framework clause 1.2.1](#).
 - ix. Average Daily Load Profile.
 - A. To be based, at a minimum, on General Supply and Controlled Load *energy* flows.
 - B. To be produced from at least the 12 months of *metering data* immediately preceding the date of the *metering data* request or the *metering data* for the period when the *retailer* or DNSP became responsible for the *retail customer's metering installation*, whichever is the lesser.
 - C. *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.
- (e) *Retailers* and DNSPs are not limited in relation to any statement, disclaimer or other wording they consider necessary to include with or be added to a summary *interval metering data* file.

4.4. Detailed data format

- (a) The detailed data format for *interval metering data* provided by a *retailer* or DNSP 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.
- (b) *Retailers* and DNSPs must make a NEM12 retail customer guide available to assist *retail customers* to understand and interpret the data included in the detailed *interval metering data* file.
- (c) The NEM12 retail customer guide must, at a minimum, explain how usage, generation or controlled load is represented in a detailed *interval metering data* file in an understandable manner, and provide examples of applications that can open the detailed *interval metering data* file.

4.5. Ability to offer alternative metering data formats

- (a) For either a summary or detailed *metering data* format, where a *retail customer* or *customer authorised representative* requests an alternative *metering data* format that does not meet the minimum *metering data* requirements specified in these Procedures, a *retailer* or DNSP may offer a *retail customer* or a *customer authorised representative* an alternative *metering data* format that does not meet the minimum *metering data* requirements specified in these Procedures.
- (b) *Retailers* and DNSPs must obtain informed consent from a *retail customer* or *customer authorised representative* before providing an alternative *metering data* file in accordance with clause 4.5(a).
- (c) For either a summary or detailed *metering data* format, where a *retail customer* or *customer authorised representative* requests an alternative *metering data* format that exceeds the minimum *metering data* requirements specified in these Procedures, a *retailer* or DNSP may offer a *retail customer* or a *customer authorised representative* an alternative *metering data* format that exceeds the minimum *metering data* requirements specified in these Procedures.
- (d) *Retailers* and DNSPs must make a customer guide available to assist *retail customers* to understand and interpret the data included in the alternative detailed file for *interval metering data*.
- (e) The customer guide must, at a minimum, explain how usage, generation or controlled load is represented in an alternative file in an understandable manner and provide examples of applications that can open the alternative file.



APPENDIX A. EXAMPLE – ACCUMULATED METERING DATA SUMMARY FORMAT

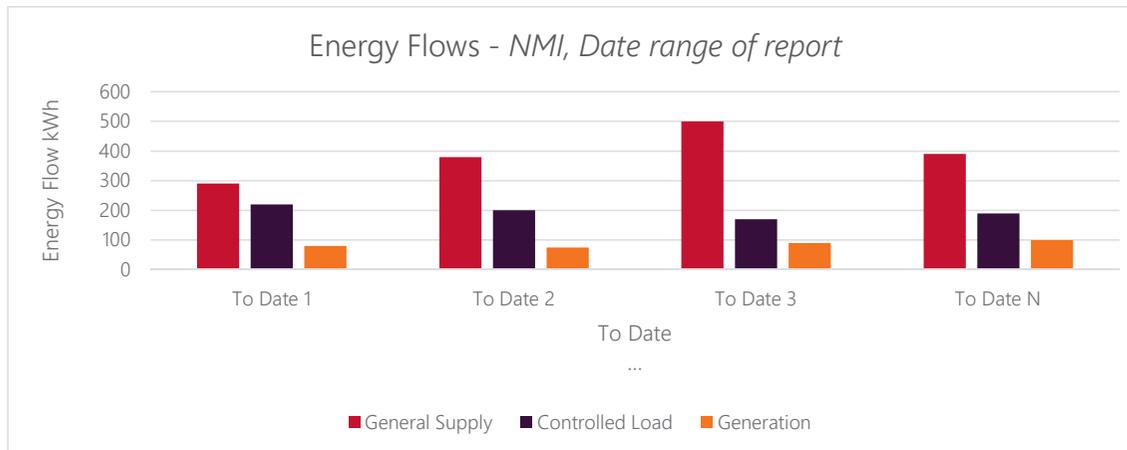
A.1 Example: accumulated file

Example of data tabulation that would be provided by a *retailer* or a DNSP 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

A.2 Example: diagrammatic representation of energy usage

Example of diagrammatic representation of data that would be provided by a *retailer* or a DNSP for a *connection point* with General Supply usage, Controlled Load usage and separately measured generation *energy flows*. Refer to clause 4.2 for requirements for this diagram.





APPENDIX B. EXAMPLE – INTERVAL METERING DATA SUMMARY FORMAT

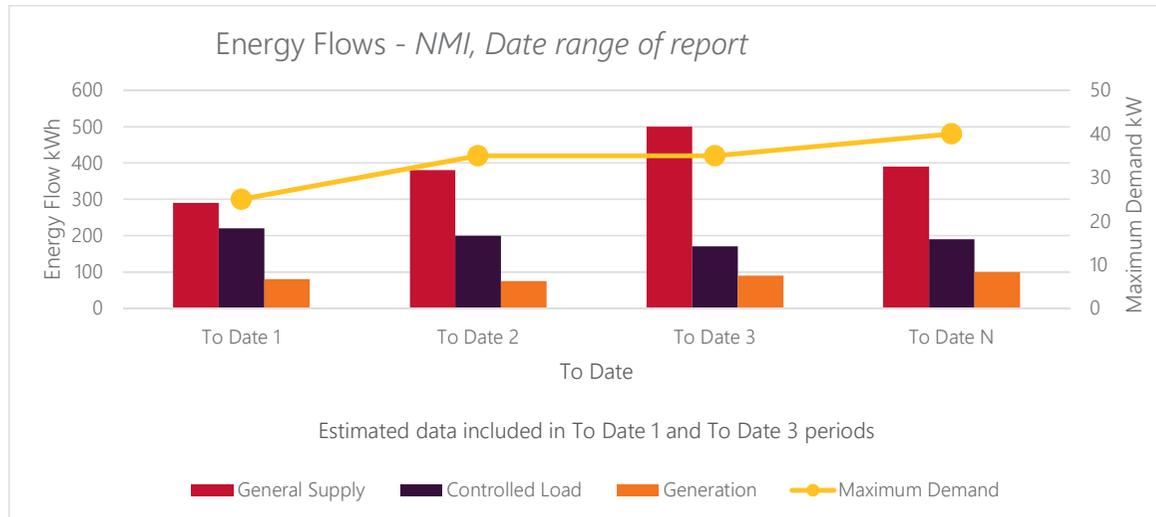
B.1 Example: interval file

Example of data tabulation that would be provided by a *retailer* or DNSP 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

B.2 Example: diagrammatic representation of energy usage

Example of diagrammatic representation of data that would be provided by a *retailer* or DNSP for a *connection point* with General Supply, Controlled Load usage and separately measured generation *energy* flows and maximum demand. Refer to clause 4.3 for requirements for this diagram.





B.3 Example: average daily load profile

Example of an Average Daily Load Profile that would be provided by a *retailer* or a DNSP (DNSPs not required to provide time of use information). Refer to clause 4.3 for requirements for this diagram.

