Understanding Your Consumption Report

7 September 2023

How to interpret an Ergon Metering Data Summary Report

The attached report of your electricity usage gives a detailed breakdown, by meter, of your meter readings and the difference between those readings (consumption or usage) for the period you requested.

You will receive an Interval **Metering Data Summary** report which shows the nature and extent of the energy usage, or load profile over a specified period and a diagrammatic representation of the energy usage.

You will also receive a **Detailed Data Report** delivered in .CSV file format (or .ZIP if file compression is required).

INTERVAL METERING DATA SUMMARY REPORT 22-Nov-2016

NMI: 3xxxxxxxxx Date range: 01-Nov-2014 to 01-Nov-2016 Page : 1 of 3

NMI	Meter Serial Number	UOM	From Date	To Date	General Supply	Controlled Load	Generation	Maximum Demand	Max Dem UOM	Estimated Data?
3xxxxxxxxx	41052323	kWh	01-Nov-2014	30-Nov-2014	793	136	0	6	kW	N
3xxxxxxxxx	41052323	kWh	01-Dec-2014	31-Dec-2014	941	99	0	4	kW	N
3xxxxxxxxx	41052323	kWh	01-Jan-2015	31-Jan-2015	1066	112	0	5	kW	N
3xxxxxxxxx	41052323	kWh	01-Feb-2015	28-Feb-2015	1049	107	0	5	kW	N
3xxxxxxxxx	41052323	kWh	01-Mar-2015	31-Mar-2015	1229	104	0	6	kW	N

Interval Metering Data

Comms or Type 1-4 Metering has the capacity to collect data. The data is obtained by remotely connecting to your meter via telecommunications and is uploaded in a reportable format (known as NEM12 format).

NMI (National Metering Identifier)

A unique identifier for a metering installation, which may consist of 0 (unmetered), 1 or more meters. A NMI remains as the unique identifier of the metering installation, irrespective of changes to customer details.

Meter Serial Number

A meter is the device located at a connection point whereby electricity consumption can be recorded for billing purposes. The meter serial number is the unique identifier for the meter.

UOM (Unit of Measure)

This is kWh (kilowatt hour) for most meters. Total energy in kWh is the product of power in kilowatts and the time in hours.

From Date and To Date

The 'From Date' is the date the meter was read and covers the consumption period up to and including the 'To Date'.

General Supply (Usage)

This is 24 hour supply, for general all day consumption. The data shows the consumption against the meter for the specified period. This would usually be represented by the E1 channel in the NEM12 file.

Controlled Load

Controlled Load charges all consumption supplied to a specific tariff. The data shows the consumption against the meter for the specified period. This would usually be represented by the E2 channel in the NEM12 file.

Generation

Indicates solar PV (Photo Voltaic) supply, feeding electricity back into the network. This would usually be represented by the B1 channel in the NEM12 file.

Maximum Demand

Maximum Demand is the electricity consumed over a predetermined period of time.

Max Dem UOM (Maximum Demand Unit of Measure)

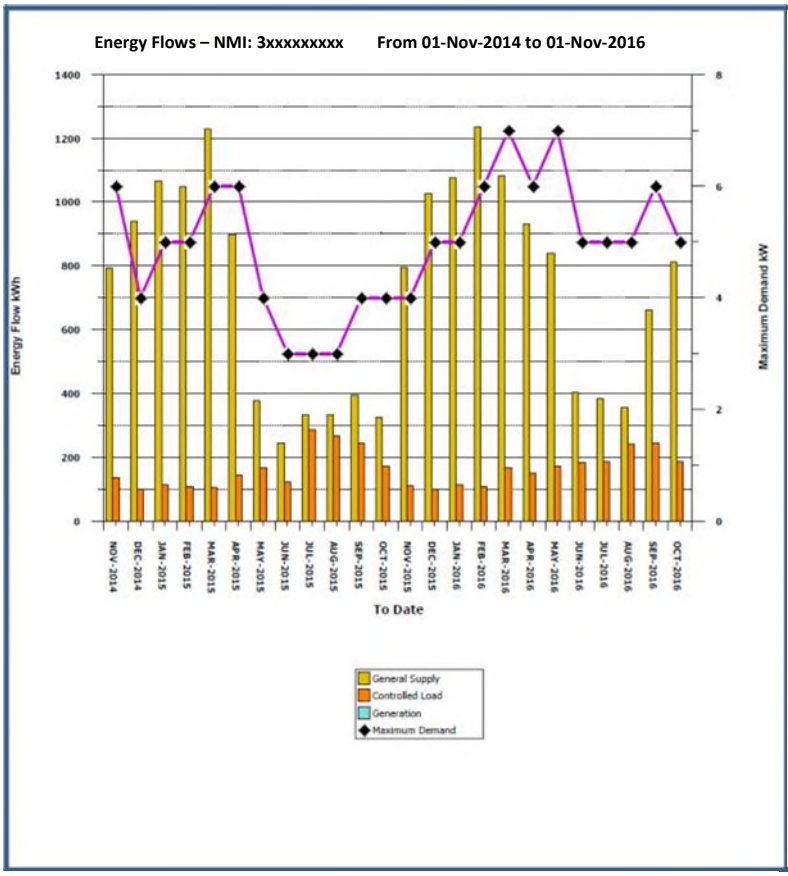
This is measured in kW (kilowatt).

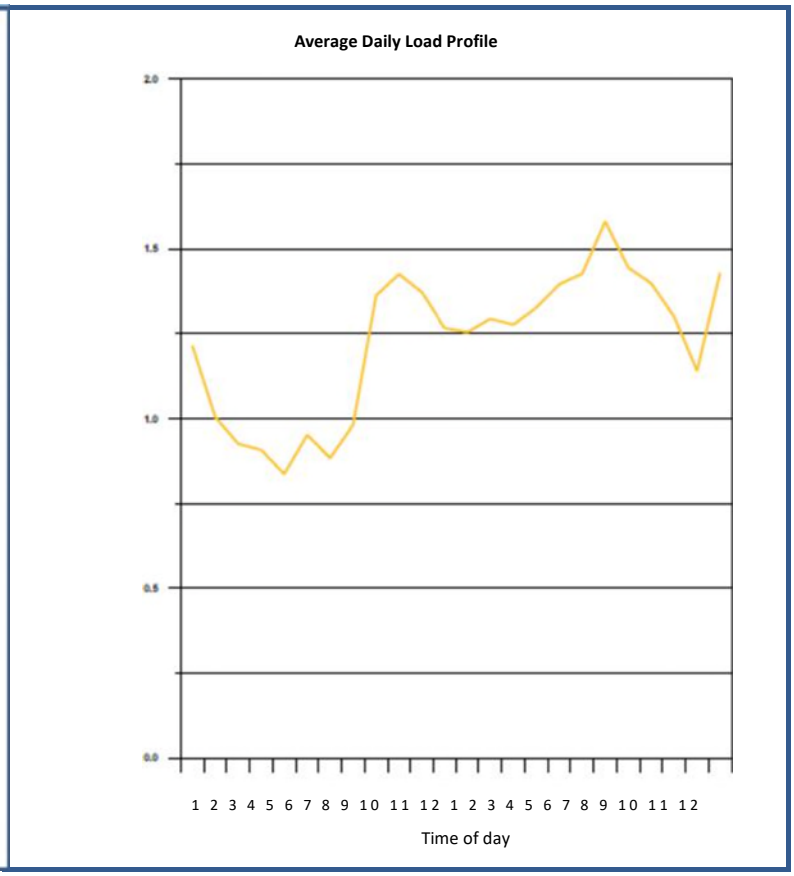
Estimated Data

Typically meter reads are 'actual reads' where the consumption is recorded via telecommunications however if telecommunications has failed an 'estimated' or substituted read is generated which is based on consumption from the previous week.

Interval Metering Data Summary Report

- PDF document and can be opened and viewed using Adobe Acrobat Reader
- This displays the nature and extent of the metered energy use.
- The below summary report of your electricity usage gives a detailed breakdown, by meter, of your meter readings and the difference between those readings (consumption or usage) for the period you requested.





- The above graph describes usage of load profile over a specified time period.
- The vertical axis on the left indicates energy flow measured in kilo watt hours.
- The vertical axis on the right indicates maximum demand measured in kilo watts.
- The horizontal axis indicates time periods.
- This is the total consumption measured against each meter installed per time period.

- The above graph describes the average daily load over a 24 hour time period.
- The vertical axis on the left indicates average consumption measured in kilo watt hours at a particular time of day.
- The horizontal axis indicates time of day.

Interval Metering Detailed Data NEM12 Report

- CSV file that can be opened and viewed using a spreadsheet (e.g. Microsoft Excel) or a text editor (e.g. Notepad).
- Complies with AEMO's *Meter Data Format Specification* (NEM12).
- NEM12 is the standard Market Format and most meters may have a combination of B E Q and or K channels.
- For more information regarding the content and format of the detailed data file for your NMI, please refer to the AEMO metering data specification at:
  - http://www.aemo.com.au/-/media/Files/Electricity/NEM/Retail_and_Metering/Metering-Procedures/2018/MDFF-Specification-NEM12--NEM13-v106.pdf

Interpreting the NEM 12 Report	
The following data stream configuration (or NMI suffix) represents a typical customer with General Power and Light Load, Controlled Load and Generation (e.g. Solar):	
Channel	**Description**
B1	Generally indicates generation (solar) load
E1	Generally primary power and light load
E2	Generally indicates a secondary load such as controlled load used for hot water heating, pool pump or air conditioning

100 line - File Header		
100,N EM12,201403281502,WBAYBM,ABCDEF1234		
Field Name	**Example data**	**Comments**
Record Indicator	100	Refers to the line number
VersionHeader	NEM12	Displays the file type
DateTime	201403281502	Date the file was generated in YYYYMMDDhhmm
FromParticipant	WBAYM	WBAYM is an example of a 'From Participant'
ToParticipant	ABCDEF1234	Participant who is authorised to receive the data. This field cannot be left blank, therefore it may just contain the NMI

200 line - File Header		
200,XXXXXXXXXX.E1Q1,N 120111111,kWh,15		
Field Name	**Example data**	**Comments**
Record Indicator	200	Refers to the line number
NMI	3XXXXXXXXXX	10 digit NMI for the supply point
NMI Configuration	E1Q1	String of all NMI suffixes applicable to the NMI
Register ID		Not required for remotely read meters.
NMISuffix	E1Q1	The E channel of Meter 1
MDMData Stream Identifier	E1Q1	Net data stream identifier
MeterSerial Number	20111111	Serial number of the meter
UOM	kWh	Unit of measure / what value the usage data reflects
IntervalLength	5, 15 or 30	Length of the metering interval in minutes
NextScheduled ReadDate		Not required for remotely read meters.

300 line - File Header		
300,20130301,.92 (x48 or 96),A,,,20130302014259		
Field Name	**Example data**	**Comments**
Record Indicator	300	Refers to the line number
IntervalDate	20130301	Date of data in YYYYMMDD
IntervalValue	0.92	Usage for the interval (there will be 48 or 96 fields depending on the interval length). Missing data will be shown as NULL
QualityMethod	A, S1, F, V and or N	Summary of data quality. A = ACTUAL S1 = SUBSTITUTED DATA F = FINAL SUBSTITUTED V = VARIED DATA (Actual and substituted) N = NULL DATA
ReasonCode		The reason for substituted / estimated data (not required for QualityMethod A and N)
Reason Desciption		Description of the reason code
Update DateTime	20130302 014259	Latest datetime that the records was updated in YYYYMMDDhhmmss
MSATSLoad DateTime		The date / time stamp that the data was loaded into MSATS

400 line - Data Events		
400, 10, 10, A, 79 Power Outage Alarm		
Field Name	**Example data**	**Comments**
Record Indicator	400	Identifies intervals with events or alarms, and indicates where data quality varies across the day.

900 line - File Header		
900		
Field Name	**Example data**	**Comments**
Record Indicator	900	End of file