



RETAIL CUSTOMER GUIDE
NEM12 METERING DATA REPORT

Retail Customer Guide

How to use this guide

This guide should be read together with your requested meter data report.

Throughout this document you will find descriptions of data and tables of examples to assist you with understanding your metering data reports. At the end of this document you will find a table containing a description of terms that may assist you in understanding terms used in this guide. If you require a more detailed description, you will find further resources on the AEMO website¹.

Any references to time are references to Australian Eastern Standard Time.

The metering data reports are compliant with AEMO's Metering Data Provision Procedures v1.0 published 1 September 2015.

¹ <http://www.aemo.com.au>

Interval Metering Data – Summary Data Report

The Interval Metering Data - Summary Data report is a PDF document and can be viewed using a PDF reader like Adobe Acrobat DC, Foxit Reader or just opening it in a web browser.

The report includes:

- The nature and extent of energy usage for the requested daily time periods,
- Usage or load profiles over the specified periods, and
- A diagrammatic representation of the information above
- An indication of whether estimated data is included in any of the time periods

Interval Metering Data – Detailed Data Report

The Interval Metering Data - Detailed Data Report is a CSV text file and can be open and viewed in a Spreadsheet (e.g. Excel, Google Sheets) or a text editor (Notepad or for very large files, Notepad ++)

The detailed report contains metering data in blocks:

- 200 – contains NMI data details; information about the NMI, meter configuration, register and meter including the unit of measure, the interval length etc. Multiple 300-500 record blocks are allowed per 200 block
- 300 – interval data records. Data quality (Actual, Final or Substitute) These records are presented in sequential date order and align with the intervals noted in the 200 record.
- 400 – interval event record. This record is required if the QualityMethod in the 300 record is set to “V”

The detailed report contains at least one 200 record. Your report can contain multiple 200 records if your NMI has multiple meters or your meter has multiple registers configured and active.

Each 200 record can have multiple 300 records – one for each day the report covers.

If any of the 300 records have a mixture of actual and substituted meter reads, there will also be a corresponding 400 record. If the 300 record block has only actual or only substituted meter reads, there will be no corresponding 400 block.

To request metering data, please contact your Account Manager or email retail@cleancoqld.com.au.

If you are representing a customer, ensure your request includes a Letter of Authorisation.

Example: Interval Meter Data Detailed report

The detailed report shows the volume of electricity in each 30 min or 15 min interval at your site. Metering data is provided in different units of measure, such as Kilowatt hours (kWh) and demand or capacity is shown in Kilowatts (kW).

There are four sections: Header (100), NMI data details (200), Interval data (300) and, if required, Interval event (400).

Note: All interval data provided is in Eastern Standard Time and any adjustments due to Daylight Savings Time must be taken into consideration when using the data.

100 ¹	NEM12 ²	200405011135 ³	MDYMDP ⁴	CLEANCO ⁵								
200	QABD000163 ⁶	E1Q1 ⁷	1 ⁸	E1 ⁹	N1 ¹⁰	METSER123 ¹¹	kWh ¹²	30 ¹³				
300	20200201 ¹⁴	432 ¹⁵	432	432	432	432	432	432	432	...	A ¹⁶	2020020120025 ¹⁷
900 ¹⁸												

¹ Row Type ID

² Meter Data report format

³ Report creation date/time

⁴ Meter Data Provider

⁵ Retailer

⁶ NMI

⁷ NMI suffixes applicable to NMI

⁸ Register ID

⁹ NMI suffix

¹⁰ Data Stream Identifier

¹¹ Meter Serial Number

¹² Unit of Measure

¹³ Interval length (minutes)

¹⁴ Date of interval (YYYYMMDD)

¹⁵ Total amount of energy in Unit of Measure (200)

¹⁶ Data Quality Flag:

A = Actual Metering Data

E = Forward estimated data

F = Final substituted data

N = Null data

S = Substituted data

V = Variable data (requires a 400 record)

¹⁷ Data Last Updated date/time

¹⁸ End record

Identifying the usage type

A NMI Suffix (9) identifies which energy stream the data relates to in the 200 record. General usage is usually identified with a NMI Suffix such as E1 and demand is usually identified as Q1

If you have a generation system at site (ie. Solar), you will also have a corresponding B1 NMI Suffix. The reading you receive will depend on whether your generation system is "Net" or "Gross".

Description of Terms

Term	Description
AEMO	The Australian Energy Market Operator, AEMO manages electricity and gas systems and markets across Australia.
Average Daily Load Profile	A load profile across a day (usually 48 intervals) based on the average of the interval metering data from the previous 12 months.
Controlled Load	A controlled load tariff can be applied to a large appliance in your home like a pool heater, which receives electricity on it's own circuit and may or may not be separately metered. In Queensland, this may be represented as Tariff 31 or Tariff 33.
Data Quality	Indicates when the meter data is from an actual read or has been estimated.
Energy Flow Type	Energy flow over a period of time for which there is a separate energy 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 energy generated, i.e. energy flow to the grid from the connection point.
Maximum Demand	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.
MDP	Meter Data Provider. An organization which installs, commissions, gathers, and verifies data remotely from your meter.
NMI	The National Metering Identifier that is a unique identifier for a metering installation. Your NMI is located on your electricity invoice.
NMI Suffix	The data stream suffix provides identification at the measurement element level for all data streams comprising the connection point identified by the NMI. For E.g. "E1", "B1", "Q1", "K1".

Term	Description
Register ID	The Register Id is used to identify a data source that is obtained from the meter. A single meter may provide multiple data sources. For E.g. "1", "2", "E1", "B1".
UOM	Unit Of Measurement for energy flow type and Maximum Demand.
Usage	Consumption of electrical energy.

For more information regarding the format and content of the detailed data file, refer to the AEMO specification "Meter Data File Format Specification NEM12 & NEM13" www.aemo.com.au