

How to understand your Interval Meter Data Report



This guide helps you understand the information in your **Interval Metering Data Report**. The report shows how much electricity you use (or generate) at set time intervals throughout the day.

Before you start: This guide is written for people who are comfortable using spreadsheets. If you're not, we recommend speaking with your electricity retailer for help.

Open your report

You can open the report using:

- Microsoft Excel
- Apple Numbers
- LibreOffice Calc
- Google sheets

About the report format

Your report uses a format called **NEM12**. This is a standard file used across the electricity industry to share meter data.

For more information, visit the Australian Energy Market Operator's (AEMO) website, www.aemo.com.au, search for the page "*Metering procedures, guidelines and processes*" and scroll down to find the newest version of the PDF document "*Meter Data File Format Specification NEM12 & NEM13*".

Your Interval Meter Data Report is structured with six blocks of CSV records. Each block contains a defined set of data fields and always starts in a new row. Each row starts with a number that shows what type of information it contains.

What the different rows mean

Records starting with 100, 500 and 900	Contain information relevant to your electricity retailer – not relevant to your electricity usage or generation (you may ignore these).
Records starting with 200	Contain information about your meter details and configuration . There may be more than one line for this in the report.
Records starting with 300	Contain information about your energy data (usage or generation) related to the record starting with 200. There will be more than one line for this in the report.
Records starting with 400	Contain information about adjustments to the data relating to the record starting with 300. There will be more than one line for this in the report.

All times in the report are in Eastern Standard Time (EST). On the day daylight saving starts or ends, you'll need to adjust the data by 1 hour at 2 am, either forward or backward.

Quick summary of relevant rows

Rows starting with 200 = Meter details
Rows starting with 300 = Your daily energy data
Rows starting with 400 = Adjustments to that data

How to read the data

Rows starting with 200

The rows starting with 200 provides basic information about your meter. Here's an example of what the rows include:

200	410XXXXXXX	B1E1Q1	B1	B1	N1	EDA76543210	KWH	15
Record ID	NMI	NMI configuration	Register	Suffix	Data stream	Meter number	UOM	Interval length

What the data means

Record ID	The type of record.
NMI	The National Metering Identifier (NMI) is a unique identifier assigned to your metering installation. You can find the NMI on your electricity bill.
NMI configuration	<i>Information more relevant to your electricity retailer (you may ignore this).</i> Shows all the suffixes configured at your metering installation.
Register	<i>Information more relevant to your electricity retailer (you may ignore this).</i> Shows the meter register that the meter data is obtained from.
Suffix	Shows the type of energy: E = energy you used B = energy you generated (e.g. solar) All other suffixes are more relevant to your electricity retailer.
Data stream	<i>Information more relevant to your electricity retailer (you may ignore this).</i> Shows the data streams associated with the suffix.
Meter number	The serial number of your meter.
UOM	Unit of measure (UOM) – usually kilowatt-hours (kWh).
Interval length	Shows the length of each interval in minutes. This could be 5, 15 or 30.

Rows starting with 300

The rows starting with 300 shows your electricity use or generation for a full day.

300	20261010	0	.765	...	.654	V	Number	Text	20261010110000	20261010120000
Record ID	Date	Recorded energy fields			Data quality	Reason code	Reason description		Date and time of last update	Date and time of market load

What the data means

Record ID	The type of record.
Date	The date the meter recorded the energy consumed or generated.
Recorded energy fields	Each field shows how much energy was used/generated during a time period. The number of values depends on the interval length: 5-minute intervals → 288 values per day 15-minute intervals → 96 values per day 30-minute intervals → 48 values per day If the interval length is 5, the time periods for the fields are 1st field is 00:00 - 00:05 2nd field is 00:05 - 00:10 ... 287th field is 23:50 - 23:55 288th field is 23:55 - 00:00 If the interval length is 15, the time periods for the fields are: 1st field is 00:00 - 00:15 2nd field is 00:15 - 00:30 ... 95th field is 23:30 - 23:45 96th field is 23:45 - 00:00 If the interval length is 30, the time periods for the fields are: 1st field is 00:00 - 00:30 2nd field is 00:30 - 01:00 ... 47th field is 23:00 - 23:30 48th field is 23:30 - 00:00
Data quality	This shows how the data was recorded (applies for the whole day): A = actual reading from the meter S, E, F = estimated or calculated data. If a number is displayed, this is more relevant to your electricity retailer and may be ignored. N = no data available V = a mix of different data types (see rows starting with 400 for details) You can usually focus on whether the data is actual (A) or estimated (S, E, F).
Reason code	<i>Information more relevant to your electricity retailer (you may ignore this).</i> Explains why the data was estimated instead of recorded by the meter.
Reason description	<i>Information more relevant to your electricity retailer (you may ignore this).</i> Provides further information for why the energy data was estimated instead of recorded by the meter.

Date and time of last update	<i>Information more relevant to your electricity retailer (you may ignore this).</i> Shows when the data was last updated in the Meter Data Provider's system.
Date and time of market load	<i>Information more relevant to your electricity retailer (you may ignore this).</i> Shows when the data was last updated in the AEMO's system.

Rows starting with 400

The rows starting with 400 explains where data has been adjusted for part of a day.

400	1	29	561	61	Equipment tampered
Record ID	From interval	To interval	Data quality	Reason code	Reason description

What the data means

Record ID	The type of record.
From interval	The first interval that the data in this row (Data quality, Reason code and Reason description) applies to.
To interval	The last interval that the data in this row (Data quality, Reason code and Reason description) applies to.
Data quality	This shows how the data was recorded (applies for the whole day): A = actual reading from the meter S, E, F = estimated or calculated data. If a number is displayed, this is more relevant to your electricity retailer and may be ignored. N = no data available V = a mix of different data types (see rows starting with 400 for details) You can usually focus on whether the data is actual (A) or estimated (S, E, F).
Reason code	<i>Information more relevant to your electricity retailer (you may ignore this).</i> Explains why the data was estimated instead of recorded by the meter.
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Need help?

If you're unsure how to use or interpret your data, please contact your electricity retailer.