Electricity metering data made easy

We know it's important for you to stay informed about your energy usage so you can understand how to manage it. After all, the data we gather from your energy meter is what determines your electricity usage and rates.

That's why we've put together an easy to understand guide for interval meters that helps take the guesswork out of any technical terms you'll see on your NEM 12 meter data extract CSV file – and so when you receive your bill, you know when your energy has been used and how you've been billed. We've also included an example of a bill as a helpful reference on page 4.

Key terms and what they mean

Term	What it means
Kilowatt hour (kWh)	This is the standard unit of measurement for your energy supply.
Controlled Load	A dedicated circuit for appliances like hot water systems or slab / underfloor heating. The appliance has its own meter and the rate is based on the energy it uses. Not all meters will have this.
Usage	How much energy you've used, as recorded by your meter.
Generation	How much energy your solar panels generate and puts back into the grid.

How to read and understand the Metering Data

Your metering data will look like this example below, starting with the number 100.
100,NEM12,200301011534,MDP1, AGL.

Order of data	Example	What it means
Record Indicator	100	The details of the entity who collected and validated the metering data, and the retailer (AGL) who received it.
Version Header	NEM12	NEM stands for National Electricity Market. The number represents the version as set by the market.
Date Time	YYYYMMDDHHMM	The date and time the data was created by the retailer.
From Participant	MDP1	MDP stands for Meter Data Provider. This is who collected and validated the metering data.
To Participant	AGL	The energy retailer, in this case AGL.

NMI Data and what it means

Your metering data will look like this example below, starting with the number 200.
200,VABD000163,E1Q1,1,E1,N1,METSER123,kWh,30

Order of data	Example	What it means
Record Indicator	200	The details contained in this row are specific to your meter equipment.
NMI	VABD000163	NMI stands for National Meter Identifier. It's a unique number that's assigned to the electricity supply point at your address. You'll see this at the top of your bill in the section 'Your details'.
NMI Configuration	E1Q1	This code details how your meter is set up for consumption and generation.
Register IDs	1	Interval/digital meters can measure and record different types of energy such as general consumption, off peak hot water or solar. The register is the mechanism by which a meter can record each function.
NMI Suffix	E1	The register which records your home's electricity usage.
MDM Data Stream Identifier	N1	MDM is the market defined value for data delivered to the AEMO.
Meter Serial Number	alphanumeric characters	Electricity meters have their own unique serial number, usually located on the front of the device.
UOM	mWh, kWh or Wh	UOM stands for Unit of Measure. It's the unit by which the quantity of energy is measured.
Interval Length	5,15 or 30	The length of time in minutes that your home's energy usage or generation is recorded.

Interval Data and what it means

Your metering data will look like this example below, starting with the number 300.
300,20030501,50.1, . . . ,21.5,V,,,20030101153445

Order of data	Example	What it means
Record Indicator	300	The energy usage for each interval of time, along with any supporting information like identifying any estimated data provided.
Interval Date	20030501	The date that the interval data relates to.
Interval Value	50.1	The energy usage recorded on the date indicated.
Quality Method	A,S,F or V	At a given time meter data for interval/s may have not been retrieved. The flag assigned informs the user of the status of the read at the time it was retrieved. A - (actual) for validated and accepted actual metering data recovered from the meter. S - Temporary metering data and may be replaced by actual metering data. Taken a value of consumption for a similar period and used it until an actual read is available. F - Unable to obtain an actual read for the interval/s. It is a permanent replacement value and cannot be replaced by an actual read at any time. This value is an average of the meter consumption for a similar period of time. V- (variable) combination of A,S or F quality methods.
Reason Code		A code used to explain why an actual read was not recorded for a given interval.
Reason Description		The explanation why an actual read was not recorded for a given interval.
Update Date Time	YYYYDDMMHHMM	The date we received the meter's data.

*AEMO stands for Australian Energy Market Operator. It's a body corporate that is responsible for operating Australia's largest wholesale gas and electricity markets and power systems.

Interval Event and what it means

Your metering data will look like this example below, starting with the number 400. 400,1,28,S14,32.

Order of data	Example	What it means
Record Indicator	400	The details of the data intervals impacted by a power interruption.
Start Interval	1	The start time that the interval event began.
End Interval	28	The end time the interval event ended.
Quality Method		The accuracy of your meter's read.
Reason Code	32	A code used to explain why an actual read was not recorded for a given interval.
Reason Description		The explanation why an actual read was not recorded for a given interval.

How to read this information on your bill

Some of the above fields can also be found on your bill. Take a look at the example bill below to look at where you can find them.

agl

⊢ 00DD01 ▭

Sam Sample
123 Sample Street
Sampletown NSW 2333

Hi Sam,
Here's your monthly electricity bill for supply address:
12304/123 'The sampletown' Sampletown
Sample St, SampletownSample Town

⚡ **Electricity**

👤 **Your details**

Issue date
5 Apr 2023
Name
Sam Sample
Account number
123 4567 891X
National Metering Identifier (N
410200000XX
Tax Invoice

💬 **Need help?**

Support, enquiries or complain
agl.com.au/help or **131 245**
Faults or emergencies
Ausgrid on **131 388** 24 hours a
Energy and Water Ombudsman
1800 246 545

👤 **Your details**

Issue date
5 Apr 2023
Name
Sam Sample
Account number
123 4567 891X
National Metering Identifier (NMI)
410200000XX
Tax Invoice

NMI

💬 **Comparing plans**

Could you save money on another plan?

Based on your past usage, you are on the best plan we can offer you.

To compare other available plans, visit the Energy Made Easy website at **www.energymadeeasy.gov.au**

The Australian Energy Regulator requires us to include this information. Please refer to the end of your bill to find out more about how we've calculated this.

📄 **Amount due**

$63.70

Due date
23 Apr 2023

AGL Sales Pty Ltd ABN 88 090 538 337

📤 **How to pay**

Direct Debit
Sign up to Direct Debit at
agl.com.au/payments
or call **131 245**.

Visa or Mastercard
Online: **agl.com.au/payments**
Phone: **1300 657 386**

PayPal
To pay via PayPal visit
agl.com.au/payments

Reference number XXXX XXXX XXXX XXXX XXXX

BPAY
Biller Code: XXXX
Ref: XXXX XXXX XXXX XXXX XXXX
Make this payment from your preferred account.

Centrepay
Eligible residential customers can visit
servicesaustralia.gov.au/centrepay
AGL Centrepay CRN: **000-000-000-0**

Mail
Send your cheque along with the reverse of this section to:
AGL Sales Pty Limited
GPO Box 2220, Sydney 2001

Post Billpay®
Make a Post Billpay® payment.
Online: **postbillpay.com.au**
Phone: **131 816**. In person at any Post Office. Billpay Code: 3201

*3291 20002329002000034

Understand your usage and export

Energy usage — Solar exports

Meter details

Meter number	Read date	Read ty...
654321	4 Apr 23	Actual
654321	4 Apr 23	Actual
654321	4 Apr 23	Actual

Your next meter read is due between **1 Ma...**

Meter number   **kWh**

Meter details

Meter number	Read date	Read type	Rate description	Start read	End read	Usage kWh
654321	4 Apr 23	Actual	Peak	3,063	3,263	200
654321	4 Apr 23	Actual	Off peak	2,020	2,100	80
654321	4 Apr 23	Actual	Solar	400	600	200

Your next meter read is due between **1 May 23** and **7 May 23.** Please ensure easy access to your meter on these days.

Next meter read

Welcome to your new-look bill

You may have noticed your bill looks new and improved.
For help understanding your bill, visit **agl.com.au/newlookbill**

It's important that your details are up to date so we can help you prepare for any planned energy interruptions.
Visit **agl.com.au/lifesupport** or call us on **131 245.**

Sustainable energy solutions for your business

Looking for ways to save on electricity bills, control overheads or show your business is serious about sustainability? Get solutions tailored to your business.
Learn more at **agl.com.au/commsolar**

Moving home?

Get the lights on the day you move in. That's our Power on Guarantee⁺
Book your move today at **agl.com.au/move**

⁺One business day's notice and clear, safe meter access and ensuring site safety requirements are met are required for the Power on Guarantee to apply. If these conditions are not met and power's not on after the agreed day, we'll cover your related expenses up to $500 per day until it's on.

Further information

We're here for you

Questions, feedback or just need a bit of help? Message us anytime in the AGL app or **visit agl.com.au/help**

Understanding fees and charges

We want you to understand the ins and outs of your bill. To find out more about common fees and charges that appear on your bill visit **agl.com.au/feesandcharges**

Are you moving?

Visit **agl.com.au/move** to arrange an electricity connection at your new address.

Want to be more energy efficient?

For information about incentives to install, improve or replace energy savings equipment and appliances in NSW households and businesses, visit **ess.nsw.gov.au**

Want more information?

Head online to **agl.com.au/meterdatarequest** or if you'd like to review the standards set by the AEMO, visit **aemo.com.au/energy-systems/electricity/national-electricity-market-nem/market-operations/retail-and-metering/metering-procedures-guidelines-and-processes**