

UNDERSTANDING YOUR DETAILED INTERVAL METERING DATA REPORT

The purpose of this guide is to help you understand and interpret the NEM12 data in your Detailed Interval Metering Data Report, allowing you the opportunity to review where your energy has been used.

The information is based on usage data that is sent to 1st Energy from your meter (either a smart, digital or interval meter type) in 30-minute blocks.

By reviewing the data, you can get a better idea of when you're consuming energy, and how much. For example, you might see a spike when you do your washing during the day, or at nighttime when you're cooking dinner and have the heating and TV on.

If you need further assistance, contact our friendly customer service team on 1300 426 594 from 9:00am – 5:00pm Monday – Friday.

OVERVIEW OF THE DETAILED INTERVAL METERING DATA REPORT

The Detailed Interval Metering Data Report is delivered in the NEM12 format, which is an industry-standard format for communicating interval metering data within the electricity supply industry, as defined by the Australian Energy Market Operator (AEMO). For further details, please refer to AEMO's documentation, *Meter Data File Format Specification NEM12 & NEM13*, available on AEMO's website www.aemo.com.au.

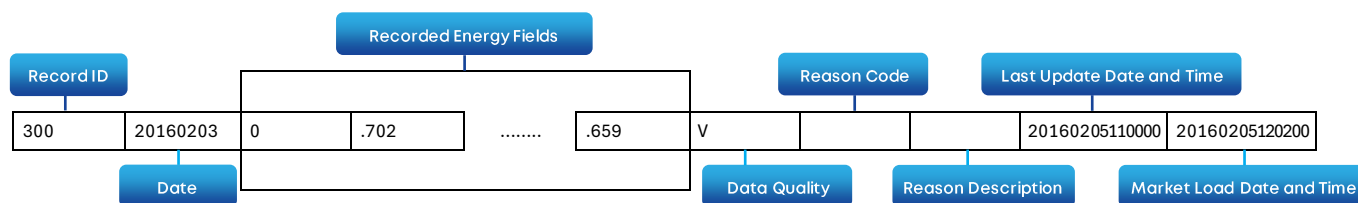
The NEM12 report is structured into six blocks of CSV records, each containing a specific set of data fields. Each block of data begins on a new line and can be identified by the **Record Indicator** field.

KEY CONSIDERATIONS FOR DATA INTERPRETATION

Please note that the interval data is provided in **Eastern Standard Time (EST)**. Any adjustments for **Daylight Saving Time (DST)** must be taken into account. To adjust for DST, shift the data by one hour forward or backward at 2:00 AM on the relevant date when the daylight savings time change occurs.

Records starting with 100, 500 and 900	Contains information relevant to your electricity retailer therefore you may ignore these records.
Records starting with 200, 300 and 400	Represents the information related to your National Meter Identifier (NMI) configuration, energy data and quality of your energy data. There will be more than one line for each number in the report.
Records starting with 200	Contains information about your meter's configuration.
Records starting with 300	Contains information about your energy data relating to the Record starting with 200 preceding the Record starting with 300.
Records starting with 400	Contains information about part day substituted energy data relating to the Record starting with 300 preceding the Record starting with 400.

INTERPRETING RECORDS BEGINNING WITH 200



Records starting with "200" contain energy consumption data for your metering installation. Here is an overview of how to read these records:

1. **Record ID:** Specifies the type of record (usually "200").
2. **Date:** Indicates the date on which the energy consumption data was recorded.
3. **Recorded Energy Fields:**
 - o The energy data is divided into intervals. For example:
 - For a **15-minute interval**, there will be 96 fields for each day, representing the consumption during 15-minute segments (e.g., 00:00-00:15, 00:15-00:30, etc.).
 - For a **30-minute interval**, there will be 48 fields per day (e.g., 00:00-00:30, 00:30-01:00, etc.).
 - For a **5-minute interval**, there will be 288 fields (e.g., 00:00-00:05, 00:05-00:10, etc.).
4. **Data Quality:** Indicates the reliability of the recorded data:
 - o **A:** Data was directly recorded by the meter (most reliable).
 - o **S, E, or F:** Data was not directly recorded but estimated or calculated (the accompanying number relates to the method used for calculation, which is generally of interest to the retailer and can be disregarded for your analysis).
 - o **N:** No data was provided by the Meter Data Provider (this is more relevant to your retailer).
 - o **V:** Indicates that a combination of the above statuses applies. Further details can be found in the following block starting with "400".
5. **Reason Code:** Explains why the energy data was substituted (relevant to the retailer).
6. **Reason Description:** Provides additional information regarding the substitution of data (again, relevant to the retailer).
7. **Last Update Date and Time:** Represents when the data was last updated in the Meter Data Provider's system.
8. **Market Load Date and Time:** Specifies when the data was last updated in AEMO's system.

INTERPRETING RECORDS BEGINNING WITH 300

Records that begin with "300" typically contain further details regarding energy consumption, such as:

1. **Record ID:** Identifies the type of record.
2. **Date:** The specific date of energy recording.
3. **Recorded Energy Fields:** These fields contain the consumption data for various intervals, as discussed in the previous section.
4. **Data Quality:** As with records beginning with "200", this field indicates the reliability of the data.

INTERPRETING RECORDS BEGINNING WITH 400

Records starting with "400" are used to provide additional details on data quality and substitution. The relevant fields include:

1. **Record ID:** Specifies the type of record (usually "400").
2. **From Interval:** Indicates the first interval for which the data quality and substitution details apply.
3. **To Interval:** Specifies the last interval for which the data quality and substitution details apply.
4. **Data Quality:** This field indicates whether the energy data was recorded by the meter or estimated.
5. **Reason Code:** Identifies the reason for the substitution of the data (relevant to the retailer).
6. **Reason Description:** Provides further explanation for the substitution of the data (relevant to the retailer).

IMPORTANT NOTES ON DATA QUALITY

- **"A"**: Data recorded directly by the meter (most accurate).
- **"S", "E", "F"**: Data that was estimated or calculated (a number following these letters refers to the calculation method, which is of primary interest to your electricity retailer).
- **"N"**: No energy data was provided by the Meter Data Provider.
- **"V"**: A combination of the above status indicators applies to the data for the day.

The Detailed Interval Metering Data Report provides essential information regarding your energy consumption patterns, structured in a standardised format that allows for detailed analysis.

By understanding the key components of the report, such as the data quality indicators, interval lengths, and the specific fields for each record block, you can gain valuable insights into your electricity usage and identify potential areas for optimisation.