

# Electralink datasets

Electralink have provided three datasets

## 1. Embedded Generation

### a. Description.

This Dataset relates to renewable and non-renewable generation connected to the distribution network rather than the National Transmission Network which is operated by National Grid. Medium sized assets generally generating less than 100 MWs will be connected and metered to the Distribution network for the purposes of settlement. The Meter reads from the meter pass through ElectraLink's system.

### 1. Limitations

i. Data is limited to MPANs connected to the DNO network. We have 99% coverage by volume and have matched the generating type by 96% of volume. Sites generating under 1MW we have struggled to match what type of generation the site is.

### 1. Key information/Lookups

i. Settlement period – A number between 1-50 related to the HH that the energy was generated in. 1 = 00:00 to 00:30 2 = 00:30 to 01:00...

ii. Generation Type – based on publicly available sources as well as some desk based analysis and Machine Learning, the generating asset has been matched with it's how the energy is generated. (Solar, wind, Diesel...)

iii. Actual/Estimated Indicator. Despite being electronically metered, sometimes the meter does not transmit the reads and they are stored as estimates until this can be corrected or the meter is inspected

{

"Title": "HH Generation data for DNO embedded generating assets"

"Creator": "ElectraLink Ltd"

"Subject": "Generation, DER, DNO assets, energy generation, renewables, Solar, wind, battery, Distribution connected"

"Description": "Dataset contains Half Hourly records of electricity generated by an individual Distributed Energy Resource that is connected to the DNO rather than the national grid for the purposes of being financially remunerated for their generated energy through the electricity settlement processes. Broadly, every metered asset generating under 50MWs and the majority of assets generating under 100MW are connected to the DNO network rather than National grid. Data is provided at a HH level for the period of 2017 to 2019 and the unit of consumption is kWhs. For 1 day a year when the clocks move backwards there will be 50 HHs for an asset and for 1 day a year when the "

"Publisher": "ElectraLink Ltd"

"Contributor": "DTS Data Asset"

"Date": "10/01/2020"

"Type": "Dataset"

"Format": "Csv"

"Identifier": "Not available"

"Source": "[www.ElectraLink.co.uk](http://www.ElectraLink.co.uk)"

"Language": "English"

"Relation": ""

"Coverage": "Great Britain (GB)"

"Rights": ""

}

## 2. Switching Data

### a Description

i. This dataset contains a record of every change of supplier within the UK for the previous 2 years. Switches have key information. This includes the date the supplier attempted to register the meter. If that attempt was successful (not all are) the date they want to take ownership and the previous supplier and when the previous supplier gained the meter.

### 1. Limitations

The reasons for the failure for a switch to complete can be multiple but are not provided as part of this dataset.

#### 1. Lookups

- i. The DNO Code is publicly available here : [https://en.wikipedia.org/wiki/Distribution\\_network\\_operator](https://en.wikipedia.org/wiki/Distribution_network_operator)

```
{  
"Title": "Electricity Supplier Switching Data for MPANs in GB 2017-2019"  
"Creator": "ElectraLink Ltd"  
"Subject": "Switching, Supplier, Electricity Supply periods"  
"Description": "Dataset contains a record for every attempted changing of supplier for all properties in GB as well as if that switch was successful or not, the old supplier, the new supplier, the date of the switch and the outcome the date the old supplier registered the customer. This data relates to all switches between 2017-2019"  
"Publisher": "ElectraLink Ltd"  
"Contributor": "DTS Data Asset"  
"Date": "10/01/2020"  
"Type": "Dataset"  
"Format": "csv"  
"Identifier": "Not available"  
"Source": "www.ElectraLink.co.uk"  
"Language": "English"  
"Relation": ""  
"Coverage": "Great Britain (GB)"  
"Rights": ""  
}
```

### 3. Meter Read Data

#### a Description

- i. The data provided is every meter read that is transferred over the DTS between 2018 and 2019. Meter reads are taken from the physical meter at various frequencies (monthly, quarterly, yearly.) the reads continue regardless of switching supplier or changing of tenancy which isn't indicated in the data. Read data is normally settled but in certain instances can have some errors in the readings due to data collectors misreading the dials. This can lead to some strange consumption patterns that does not truly reflect the consumption

#### 1. Limitations

- i. We do not have HH consumption within this dataset
- ii. This data is operational so may have errors and mistakes. The suppliers deal with these errors and obtain new reads. Some of this process can be complex. You may get multiple reads for the same date and the supplier can select which one to use for billing. This can lead to 2 alternate read histories being generated neither being correct.
- iii. There are some gaps in the Scottish area due to a different system being used in some instances
- iv. In some instances there are more than 1 register at a site. Most will be Day/night metering. Please calculate the cumulative consumption across these registers
- v.

```
{  
"Title": "Meter Reading Data for MPANs in GB"  
"Creator": "ElectraLink Ltd"  
"Subject": "Consumption, meter reads, usage, energy consumption, property level energy"  
"Description": "Dataset contains a record of every attempted meter read between 2017 and 2019. The reads provided are at a meter register level and represent the reads taken from the meter by a site engineer or supplied by customers via the phone/internet. The reads have a series of
```

industry validation flags associated with them and do not have to be used for billing processes. On any given date more than 1 read for the same meter might exist indicating that there is some complication with meter reading and is only as good as the data that is passed through the system, however the data is representative of the challenges suppliers may face in getting accurate bills to customers"

"Publisher": "ElectraLink Ltd"

"Contributor": "DTS Data Asset"

"Date": "10/01/2020"

"Type": "Datset"

"Format": "Csv"

"Identifier": "Not available"

"Source": "[www.ElectraLink.co.uk](http://www.ElectraLink.co.uk)"

"Language": "English"

"Relation": ""

"Coverage": "Great Britain (GB)"

"Rights": ""

}

1. Lookups

i. Read method

Value
Description
N
Not viewed by an Agent or Non Site Visit
P
Viewed by an Agent or Site Visit

ii. Read Type

A	Actual Change of Supplier Read
C	Customer own read
D	Deemed (Settlement Registers) or Estimated (Non-Settlement Registers)
F	Final
I	Initial
M	MAR
O	Old Supplier's Estimated CoS Reading
P	Electronically collected via PPMIP
Q	Meter Reading modified manually by DC
R	Routine
S	Special
T	Proving Test Reading
W	Withdrawn
Z	Actual Change of Tenancy Read

iii. Supplier Type

B6 – Big 6

S = Small – Less than 250,000 customer

MI = Medium – Greater than 250,000 and Less than 500,000 customers

LI = Greater than 500,000 customers