

# UK Power

This page serves to document some information I found regarding the UK power grid and the data available in relation to it.

## Data providers

The national grid itself provides some real-time (ish; delayed by 2 minutes) data, but there is additional data provided by other parties.

- Elexon - I have no idea who they are, but they provide per-megawatt usage of individual power sources.

## Data sources and formats

### Elexon

There are a number of data sources available from Elexon's "API", in varying formats. The data permitted to be automatically downloaded is listed at <https://www.elexonportal.co.uk/SCRIPTING>

**<https://downloads.elexonportal.co.uk/fuel/download/latest>**

XML document of the following structure:

- GENERATION\_BY\_FUEL\_TYPE\_TABLE
  - INST
    - FUEL
      - Properties
        - TYPE - String, fuel type code
        - IC - Boolean (Y=True, N=False), indicates if the fuel source is an interconnect
        - VAL - Integer, usage in megawatts
        - PCT - Float, percentage of total usage
      - Properties
        - AT - DateTime
        - TOTAL - Integer, total usage in megawatts
    - HH
      - FUEL
        - As defined in 'INST'
      - Properties
        - SD - Unknown
        - SP - Unknown
        - AT - Timestamp range
        - TOTAL - Integer, megawatts

- LAST24H
  - FUEL
    - As defined in 'INST'
  - Properties
    - FROM\_SD - Unknown
    - FROM\_SP - Unknown
    - AT - Timestamp range
    - TOTAL - Integer, total megawatts used during the reporting period
- LAST\_UPDATED
  - Properties
    - AT - DateTime

**[https://downloads.elexonportal.co.uk/file/download/RCRC\\_FILE](https://downloads.elexonportal.co.uk/file/download/RCRC_FILE)**

CSV format, list of settlements, unknown utility.

**[https://downloads.elexonportal.co.uk/file/download/SSPSBPNIIV\\_FILE](https://downloads.elexonportal.co.uk/file/download/SSPSBPNIIV_FILE)**

CSV format, list of settlements with buy and sell prices and net imbalance volumes

**[https://downloads.elexonportal.co.uk/file/download/REGISTERED\\_BMUNITS\\_FILE](https://downloads.elexonportal.co.uk/file/download/REGISTERED_BMUNITS_FILE)**

CSV format with extraneous header, not fully sure but it seems like a list of companies who buy and sell energy

**[https://downloads.elexonportal.co.uk/file/download/REGISTERED\\_PARTICIPANTS\\_FILE](https://downloads.elexonportal.co.uk/file/download/REGISTERED_PARTICIPANTS_FILE)**

CSV format with extraneous header, list of companies that trade energy

**[https://downloads.elexonportal.co.uk/file/download/TLM\\_FILE](https://downloads.elexonportal.co.uk/file/download/TLM_FILE)**

CSV format, unknown content lol

**[https://downloads.elexonportal.co.uk/file/download/BESTVIEWPRICES\\_FILE](https://downloads.elexonportal.co.uk/file/download/BESTVIEWPRICES_FILE)**

Excel document, unknown content

Elxon also provide data through a more formal API, as well as through message queueing systems including AMQP, but I haven't explored that and don't have the energy to.

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