Documentation

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1 Home

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2 Regions

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4 Bidding zones

4.1 Definition

- The largest geographical area within which market participants are able to exchange energy without capacity allocation.
- The majority of bidding zones in Europe are defined by national borders (e.g., France or the Netherlands).
- Some are larger than national borders (e.g., Austria, Germany and Luxembourg or the Single Electricity Market for the island of Ireland)
- Some are smaller zones within individual countries (e.g., Italy, Norway or Sweden).

Source: Ofgem.

4.2 Bidding zones in the North Sea region

Bidding zones of the European electricity market. Source: Polskie Sieci Elektroenergetyczne. Bidding zones in the North Sea region.

Country	Market(s)	Zone(s)
Belgium (BE)	EPEX SPOT	BE
Germany (DE / GE)	EPEX SPOT	DE-AT-LU*
Denmark (DK)	Nord Pool	DK1, DK2
France (FR)	EPEX SPOT	FR
Netherlands (NL)	EPEX SPOT	NL
Norway (NO)	Nord Pool	NO1, NO2, NO3, NO4, NO5
Sweden (SE / SW)	Nord Pool	SE1, SE2, SE3, SE4
United Kingdom (UK)	EPEX SPOT, Nord Pool	GB, I-SEM**

^{*}Austria (AT / AU); Luxembourg (LU)

5 North Sea countries

5.1 NUTS (Nomenclature of territorial units for statistics)

See the Jupyter notebook.

6 Data

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- Met data
 - Deutscher Wetterdienst
 - Royal Netherlands Meteorological Institute
 - Met Office



^{**}Great Britain (GB); Irish single electricity market (I-SEM), which includes Republic of Ireland (IE) and UK's Northern Ireland (NI)



- Norwegian Meteorological Institute
- Swedish Meteorological and Hydrological Institute
- Danish Meteorological Institute
- Météo-France
- The Royal Meteorological Institute of Belgium
- Generation and demand data
 - ENTSO-E Transparency Platform
- Market data
 - Nord Pool
 - EPEX Spot
- Other data
 - NUTS (Nomenclature of territorial units for statistics)

8 Data folder navigation

- Data
 - ENTSO-E
 - * generation and load data for each bidding zone in the North Sea region, grouped by country
 - Meteo meteorological data, grouped by country
 - Market market data for the North Sea region
 - NUTS territorial units

9 Met data

9.1 Deutscher Wetterdienst

- CDC (Climate Data Center) portal
- CDC OpenData
- Terms of use for data on the CDC ftp server
- Data set descriptions
 - Hourly station observations of air temperature at 2 m above ground in °C for Germany
 - Hourly station observations of relative humidity in % for Germany
 - Hourly station observations of precipitation amount in mm for Germany
 - Hourly station observations of form of precipitation (WR code) for Germany
 - Hourly station observations of index whether precipitation has fallen for Germany
 - Hourly mean of station observations of wind speed ca. 10 m above ground in m/s for Germany
 - Hourly mean of station observations of wind direction at ca. 10 m above ground in degree for Germany
 - Hourly station observations of air pressure at station level in hpa for Germany
 - Hourly station observations of air pressure at mean sea level in hpa for Germany
 - Hourly station observations of cloud coverage in eighths for Germany
- Hourly wind data





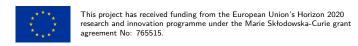
- 9.2 Royal Netherlands Meteorological Institute
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 - GENERAL TERMS AND CONDITIONS FOR THE USE OF THE ENTSO-E TRANSPAR-ENCY PLATFORM
 - LIST OF DATA AVAILABLE FOR FREE RE-USE
 - Downloaded data:
 - Actual Generation per Production Type
 - Total Load Day Ahead / Actual

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15 Modelling framework

Modelling framework.





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