

Interconnected network of Northern Europe

2023

(as of 13/09/2023)



Scale: 1:3.000.000

Lines and cables (colours)

- 750 kV transmission line
- 500 kV transmission line
- 380-400 kV transmission line
- 300-330 kV transmission line
- 220 kV transmission line
- 132-150 kV transmission line

Different lines (for all voltages) under operation

- DC-line
- Double circuit
- Double circuit with 1 circuit mounted
- >= 3 circuits

Additional information for all lines and voltages

- Under construction (dashed)
- Underground (for onshore lines and cables)
- Currently used voltage
- Temporary voltage
- Named as explained below

Other elements

- Connection line
- Phase shifter, under construction
- Substation, under construction
- Converter Station
- Converter Station Back-to-back

Power plants

- Biogas
- Brown coal/Lignite
- Coal derived gas
- Fossil fuel
- Fossil gas
- Fossil oil
- Fossil peat
- Geothermal
- Hard coal
- Hydro marine
- Hydro mixed pump storage
- Hydro pure pump storage
- Hydro pure storage
- Hydro run-of-river & pondage
- Nuclear
- Oil shale
- Other fossil fuels
- Other or not listed
- Solar
- Solar photovoltaic
- Solar thermal
- Waste (non renewable)
- Waste (renewable)
- Wind farm

NGC threshold in MW

All existing power plants and under construction with NGC their Generating Capacity equal or higher than the value indicated in the following table are displayed on the map even if they are not connected to the high-voltage network. CAP: Connected and Power: distribution (not natural gas). n.a.: based on best data. The first column of the table below indicates the visibility of CAP by country.

Country	NGC threshold (MW)	Power (MW)	Other power systems
Austria	100	100	no
Belgium	100	100	no
Denmark	100	100	no
Finland	100	100	no
France	100	100	no
Germany	100	100	no
Greece	100	100	no
Italy	100	100	no
Latvia	100	100	no
Lithuania	100	100	no
Netherlands	100	100	no
Poland	100	100	no
Russia	100	100	no
Sweden	100	100	no
Switzerland	100	100	no
Ukraine	100	100	no
Uzbekistan	100	100	no
Other power systems			no

Power systems

- ENTSO-E members
- Other power systems

