## Net generation 2015¹

<table>
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¹ Net generation 2015 includes data on historical differences of total generation with 2014.

## Net generating capacity (NGC) as of 31 Dec. 2015²

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<th>Geothermal (of which geothermal)</th>
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</tbody>
</table>

² Net generating capacity (NGC) as of 31 Dec. 2015 includes also oil shale which is Gas including Coal-Derived Gas.
Generation

Generation mix in ENTSO-E member TSOs’ countries in 2015

- **Fossil fuels net generation** (lignite and hard coal, gas, oil, mixed fuels, peat): 1,360.60 TWh
- **Renewable net generation** (hydro, wind, solar, biomass, geothermal): 1,042.45 TWh
- **Thermal nuclear net generation**: 836.04 TWh
- **Hydraulic net generation** (except renewable part): 79.82 TWh
- **Non-identifiable net generation**: 11.69 TWh

ENTSO-E renewable generation

- **Renewable net generation**
  - of which hydro: 2013 545.63, 2014 522.48, 2015 489.25 TWh
  - of which wind: 2013 222.81, 2014 232.81, 2015 254.71 TWh
  - of which biomass: 2013 87.97, 2014 103.65, 2015 116.18 TWh
  - of which solar: 2013 80.95, 2014 95.91, 2015 101.96 TWh

ENTSO-E fossil fuels generation

- **Fossil fuels net generation**
  - of which hard coal: 2013 441.08, 2014 437.00, 2015 418.28 TWh
  - of which gas: 2013 386.16, 2014 371.68, 2015 409.41 TWh
  - of which oil: 2013 42.78, 2014 40.46, 2015 31.88 TWh
  - of which mixed fuels: 2013 45.45, 2014 37.84, 2015 48.80 TWh

Share of energy produced of each member TSOs’ country 2015 in %

- **AT**: 25.1%
- **BA**: 31.3%
- **BE**: 40.8%
- **BG**: 0.4%
- **CH**: 2.4%
- **CY**: 40.8%
- **CZ**: 31.3%
- **DE**: 25.1%
- **DK**: 20.1%
- **EE**: 0.1%
- **ES**: 20.1%
- **FI**: 0.1%
- **FR**: 40.8%
- **GB**: 0.1%
- **GR**: 40.8%
- **HR**: 2.4%
- **HU**: 31.3%
- **IE**: 0.4%
- **IS**: 2.4%
- **IT**: 0.4%
- **LT**: 20.1%
- **LU**: 0.4%
- **LV**: 31.3%
- **ME**: 0.4%
- **MK**: 2.4%
- **NI**: 31.3%
- **NL**: 0.4%
- **NO**: 2.4%
- **PL**: 40.8%
- **PT**: 0.4%
- **RO**: 2.4%
- **RS**: 31.3%
- **SE**: 0.4%
- **SI**: 0.4%
- **SK**: 0.4%

1 All values are calculated to represent 100% of the national values.
2 Share of energy produced, based on the net generation for each TSO as a member of ENTSO-E per the tables “ENTSO-E in figures” on page 2–5.
3 All data with the country code GB represents monthly statistical data as sum of England, Scotland and Wales.
4 All data with the country code NI represents the monthly statistical data of GB Northern Ireland.
Physical energy flows

Values in GWh

- ≥ 10,000
- ≥ 5,000
- ≥ 2,500
- ≥ 1,000
- ≥ 100
- < 100

Consolidated yearly values might differ from detailed flow data from the ENTSO-E database due to ex-post consolidation taking into account national statistical resources.

Isolated system; therefore no exchange data.

All data with the country code GB represents monthly statistical data as sum of England, Scotland and Wales.

All data with the country code NI represents the monthly statistical data of GB Northern Ireland.
Overview electricity exchanges for the past 3 years in GWh

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1 External exchanges include Albania, Belarus, Moldavia, Morocco, Russia, Turkey, Ukraine and Ukraine-West.

Highest and lowest hourly load values of each country 2015

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<td>NI</td>
<td>14.01</td>
<td>18:00</td>
<td>7,67</td>
<td>14.07</td>
</tr>
<tr>
<td>NL</td>
<td>06.01</td>
<td>17:00</td>
<td>17,761</td>
<td>02.08</td>
</tr>
<tr>
<td>NO</td>
<td>04.02</td>
<td>08:00</td>
<td>22,550</td>
<td>23.08</td>
</tr>
<tr>
<td>PL</td>
<td>07.01</td>
<td>17:00</td>
<td>23,069</td>
<td>26.12</td>
</tr>
<tr>
<td>PT</td>
<td>07.01</td>
<td>17:00</td>
<td>8,618</td>
<td>05.04</td>
</tr>
<tr>
<td>RO</td>
<td>08.01</td>
<td>18:00</td>
<td>8,488</td>
<td>12.04</td>
</tr>
<tr>
<td>RS</td>
<td>31.12</td>
<td>17:00</td>
<td>6,879</td>
<td>10.05</td>
</tr>
<tr>
<td>SE</td>
<td>05.02</td>
<td>17:00</td>
<td>23.395</td>
<td>19.07</td>
</tr>
<tr>
<td>SI</td>
<td>05.02</td>
<td>11:00</td>
<td>2,096</td>
<td>01.05</td>
</tr>
<tr>
<td>SK</td>
<td>25.11</td>
<td>17:00</td>
<td>4,154</td>
<td>02.08</td>
</tr>
</tbody>
</table>

1 Calculated hourly load values represent the average of the hour; they are calculated to represent 100% of the national values.
2 It is the hour following the given time (00:00 meaning the hour from 00:00 to 01:00).
3 The reported figures are best estimates based on actual measurements and extrapolations.
4 All values are calculated to represent 100% of the national values.
5 All data with the country code GB represents monthly statistical data as sum of England, Scotland and Wales.
6 All data with the country code NI represents the monthly statistical data of GB Northern Ireland.
7 All data with the country code NL represents the monthly statistical data of NL the Netherlands.

Country values in MW on the days of the highest and lowest ENTSO-E load values

<table>
<thead>
<tr>
<th>Time</th>
<th>Country</th>
<th>Load (MW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>05.02.15</td>
<td>AT</td>
<td>9,971</td>
</tr>
<tr>
<td>16.08.15</td>
<td>AT</td>
<td>9,971</td>
</tr>
<tr>
<td>05.02.15</td>
<td>NL</td>
<td>1,543</td>
</tr>
<tr>
<td>16.08.15</td>
<td>NL</td>
<td>1,543</td>
</tr>
<tr>
<td>05.02.15</td>
<td>ES</td>
<td>7,308</td>
</tr>
<tr>
<td>16.08.15</td>
<td>ES</td>
<td>7,308</td>
</tr>
<tr>
<td>05.02.15</td>
<td>RO</td>
<td>2,493</td>
</tr>
<tr>
<td>16.08.15</td>
<td>RO</td>
<td>2,493</td>
</tr>
<tr>
<td>05.02.15</td>
<td>AT</td>
<td>9,971</td>
</tr>
<tr>
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</tr>
<tr>
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<td>RO</td>
<td>2,493</td>
</tr>
<tr>
<td>16.08.15</td>
<td>RO</td>
<td>2,493</td>
</tr>
</tbody>
</table>

1 Calculated load values as sum of the ENTSO-E member TSOs’ countries.
2 All values are calculated to represent 100% of the national values.
3 It is the hour following the given time (00:00 meaning the hour from 00:00 to 01:00).
4 All data with the country code GB represents monthly statistical data as sum of England, Scotland and Wales.
5 All data with the country code NI represents the monthly statistical data of GB Northern Ireland.
Number of circuits on cross-frontier transmission lines as of 31 December 2015 in the ENTSO-E area\textsuperscript{1,2}

<table>
<thead>
<tr>
<th>Length of AC circuits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over 400 kV</td>
</tr>
<tr>
<td>380 – 400 kV</td>
</tr>
<tr>
<td>300 – 330 kV</td>
</tr>
<tr>
<td>220 – 285 kV</td>
</tr>
<tr>
<td>110 – 160 kV</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of cross frontier lines in the ENTSO-E area</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC</td>
</tr>
<tr>
<td>----</td>
</tr>
<tr>
<td>Over 400 kV</td>
</tr>
<tr>
<td>380 – 400 kV</td>
</tr>
<tr>
<td>300 – 330 kV</td>
</tr>
<tr>
<td>200 – 285 kV</td>
</tr>
<tr>
<td>110 – 150 kV</td>
</tr>
<tr>
<td>Under 110 kV</td>
</tr>
</tbody>
</table>

\textsuperscript{1} Non geographic location of lines.
\textsuperscript{2} Only lines operated by TSOs are taken into account.
\textsuperscript{3} All data with the country code GB represents statistical data as sum of England, Scotland and Wales.
\textsuperscript{4} All data with the country code NI represents statistical data GB Northern Ireland.
ENTSO-E at a Glance

ENTSO-E, the European Network of Transmission System Operators, represents 42 electricity transmission system operators (TSOs) from 35 countries across Europe. ENTSO-E was established and given legal mandates by the EU legislation.

ENTSO-E promotes closer cooperation across Europe’s TSOs to support the implementation of EU energy policy and achieve Europe’s energy & climate policy objectives, which are changing the very nature of the power system.

**Reliable. Sustainable. Connected.**

ENTSO-E contributes to the achievement of these objectives mainly through:

- the drafting and implementation of network codes;
- the development of pan-European network plans (TYNDPs);
- the technical cooperation between TSOs and between TSOs and DSOs;
- the publication of outlook reports for electricity generation;
- the publication of fundamental data on the EU electricity markets;
- the coordination of R&D plans.

ENTSO-E is the focal point for all technical, market and policy issues relating to TSOs and the European network, interfacing with power system users, EU institutions, regulators and national governments. Through its work, ENTSO-E is helping to build the world’s largest electricity market, the benefits of which will not only be felt by all those in the energy sector but also by Europe’s overall economy, today and into the future.

Visit www.entsoe.eu for more EU electricity statistics, data, facts & figures and our latest position papers, publications and press releases. By visiting our website, subscribing to our news alert or following us on twitter you will be able to keep up-to-date with the development of our key work products which all make the European energy policy progress to the benefit of consumers.

Contact

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