FRAUNHOFER INSTITUTE
FOR SOLAR ENERGY SYSTEMS ISE

Electricity production from solar and wind in Germany in 2012

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February 08, 2013
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Facts to the electricity production from Solar and Wind 2012

- Due to the strong growth of the renewables in 2012, an export surplus of 22 TWh was achieved.

- Wind turbines produced 45.9 TWh in 2012 (48.9 TWh in 2011).
  - Their production decreased by 6% compared to 2011.
  - Wind energy produced 8.2% of the gross electricity generation.

- Photovoltaic (PV) plants produced 27.9 TWh in 2012 (19.3 TWh in 2011).
  - The production increased by 44% compared to 2011.
  - Solar energy produced 5.0% of the gross electricity generation.

- Hydro power produced 18.1 TWh in 2012. The share of the gross electricity generation was 3.0%.

Data source: BMWi Energiedaten, Date: 15.01.2012
AGENDA

- Annual energies
- Monthly energies
- Weekly energies
- Daily energies
- Annual power curves
- Monthly power curves
- Weekly power curves
- Exemplary daily power curves
Installed power solar and wind at end of December 2012

Since August 2012 the installed solar power is greater than the installed wind power

Graph: B. Burger, Fraunhofer ISE; data: Bundesnetzagentur
Installed solar and wind power 2011 and 2012

Graph: B. Burger, Fraunhofer ISE; data: Bundesnetzagentur

Installed solar and wind power at the end of the year

- Solar power: 24.279 GW (2011) → 32.44 GW (2012), +34%
- Wind power: 28.807 GW (2011) → 29.9 GW (2012), +4%
Solar power plants produced 27.9 TWh in 2012. They reached a share of 5% of the gross electricity production of 560 TWh.

Wind turbines produced 45.9 TWh in 2012. They reached a share of 8.2% of the gross electricity production.
Production solar and wind in 2012

Annual sum of solar und wind production

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
Shares in net electricity production in 2012

Net electricity production in 2012

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform, Statistisches Bundesamt (DESTATIS)
Changes in net electricity production, 2012 versus 2011

Less uranium due to switch-off of 8 nuclear power plants in March 2011.

Less gas due to peak load production of PV.

More solar due to increased installed capacity.

More run of river and less wind due to different weather conditions.

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform, Statistisches Bundesamt (DESTATIS)
Change in first half-year net electricity production, 2012 versus average of 2002 to 2011

Brown coal and hard coal almost constant, less gas due to high gas prices.

Significantly less uranium due to switch-off of 8 nuclear power plants.

Energetic compensation of uranium through renewable energies.

More run of river due to different weather conditions.

Graph: B. Burger, Fraunhofer ISE; data: Statistisches Bundesamt; EEX Transparency Platform
The export surplus in 2012 will be approx. 22 TWh.

The maximum export surplus was 22.5 TWh in 2008.
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- Annual power curves
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The maximal production of PV was reached in May 2012 with 4.1 TWh

The minimal production was 0.44 TWh in December 2012
The maximal production from wind was reached in January 2012 with 7 TWh.

The minimal production was 2.2 TWh in August 2012.

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
The maximal production of conventional sources was 35.9 TWh in February 2012.

The minimal production of conventional sources was 26.6 TWh in May 2012.

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
The maximal sum of solar and wind production was 7.6 TWh in January 2012.

The minimal sum was 4.7 TWh in November 2012.

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
Monthly Production Solar, Wind and Conventional

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
Electricity Export and Import

Graph: B. Burger, Fraunhofer ISE; data: Statistisches Bundesamt (DESTATIS); Entso-e
The export surplus of the first eleven months of 2012 was 17.2 TWh. (DESTATIS)

Calculated export surplus: December 4.2 TWh (Entso-e, scaled)
AGENDA

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- **Weekly energies**
- Daily energies
- Annual power curves
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- Exemplary daily power curves
The maximal weekly solar electricity production was 1.1 TWh in calendar week 21 from 21\textsuperscript{st} to 27\textsuperscript{th} of May 2012.

The minimal weekly production was 0.06 TWh in calendar week 50 from 10\textsuperscript{th} to 16\textsuperscript{th} of December 2012.

Graph: B. Burger, Fraunhofer ISE; solar data: EEX Transparency Platform
The maximal weekly wind electricity production was 2.6 TWh in calendar week 1 from 2\textsuperscript{nd} to 8\textsuperscript{th} of January 2012.

The minimal weekly production was 0.29 TWh in calendar week 27 from 2\textsuperscript{nd} to 8\textsuperscript{th} of July 2012.

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
The maximal weekly electricity production from conventional sources was 9.6 TWh in calendar week 6 from 6\textsuperscript{th} to 12\textsuperscript{th} of February 2012.

The minimal weekly production was 4.8 TWh in calendar week 52 from 24\textsuperscript{th} to 30\textsuperscript{th} of December 2012.

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
The maximal weekly sum of solar and wind production was 2.7 TWh in calendar week 1 from 2\textsuperscript{nd} to 8\textsuperscript{th} of January 2012.

The minimal weekly sum was 0.65 TWh in calendar week 43.

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
Weekly Production Solar, Wind and Conventional

Weekly Production Solar, Wind and Conventional > 100 MW

Legend: Conventional > 100 MW Wind Solar

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
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- **Daily energies**
  - Annual power curves
  - Monthly power curves
  - Weekly power curves
  - Exemplary daily power curves
The maximal daily production was 0.19 TWh at Friday, 25.05.2012

The minimal daily production was 0.003 TWh at Saturday, 21.01.2012

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
The maximal daily production was 0.53 TWh at Thursday, 05.01.2012

The minimal daily production was 0.007 TWh at Wednesday, 24.10.2012
The maximal daily production from conventional sources greater 100 MW was 1.45 TWh at Wednesday, 08.02.2012.

The minimal daily production from conventional sources greater 100 MW was 0.58 TWh at Sunday, 30.12.2012.

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform.
The maximal daily sum of Solar and Wind production was 0.53 TWh at Thursday, 05.01.2012

The minimal daily sum of Solar and Wind production was 0.03 TWh at Wednesday, 19.12.2012

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
Daily production Solar, Wind and Conventional

Daily production Solar, Wind and Conventional > 100 MW

Legend: Conventional > 100 MW  Wind  Solar

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
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The maximal solar power was 22.4 GW at 25\textsuperscript{th} of May 2012, 12:45 (GMT +2:00)
The maximal wind power was 24.1 GW at 03\textsuperscript{rd} of January 2012, 17:45 (GMT +1:00)

The minimal wind power was 0.115 GW at 25\textsuperscript{th} of July, 10:00 (GMT +2:00)
The maximal power of conventional sources greater 100 MW was 66.5 GW at 12th of December 2012, 17:00 (GMT +1:00).

The minimal power was 20.5 GW at 27th of December 2012, 04:00 (GMT +1:00).

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
Electricity Production from Solar and Wind

Actual production solar and wind

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
Electricity Production from Conventional, Solar and Wind

Actual production from conventional sources, wind and solar

Legend: Conventional > 100 MW  Wind  Solar

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
Electricity Production from Conventional, Solar and Wind

Actual production from conventional sources, wind and solar with import and export

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
The sum of Solar and Wind power is up to now always smaller than the installed power of the single sources. Solar and Wind complement one another quite good.
Planned versus actual productionWind

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
Planned versus actual production Conventional

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
Electricity Production of all Sources

Real Production

Legend:  
- Run of River
- Uranium
- Brown Coal
- Hard Coal
- Gas
- Pumped Storage
- Wind
- Solar

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
Electricity Production: Uranium, Coal and Gas

Real Production

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform

Legend: Uranium | Brown Coal | Hard Coal | Gas

Display year: 2012
Electricity Production: Run of River, Pumped Storage and Seasonal Storage

**Real Production**

Legend:
- Run of River
- Pumped Storage
- Seasonal Storage

Graph: B. Burger, Fraunhofer ISE; data: EEX Transparency Platform
Electricity Import and Export

Graph: B. Burger, Fraunhofer ISE; data: Entso-e
The export surplus in 2012 was approx. 22 TWh.
Electricity Import and Export
France, Switzerland and Poland

Graph: B. Burger, Fraunhofer ISE; data: Entso-e
Electricity Import and Export
Denmark and Austria

Legend:
- Import
- Export

Graph: B. Burger, Fraunhofer ISE; data: Entso-e
Electricity Import and Export
Czech Republic, the Netherlands and Sweden

Graph: B. Burger, Fraunhofer ISE; data: Entso-e
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  - Monthly power curves with import and export
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Electricity Production in Germany: January 2012

**Actual production**

<table>
<thead>
<tr>
<th></th>
<th>max. power</th>
<th>date max. power</th>
<th>monthly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>8.4 GW</td>
<td>18.01., 12:15 (+1:00)</td>
<td>0.54 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>24.1 GW</td>
<td>03.01., 17:45 (+1:00)</td>
<td>7.0 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>60.3 GW</td>
<td>17.01., 18:00 (+1:00)</td>
<td>31.8 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
Electricity Production in Germany: February 2012

Actual production

<table>
<thead>
<tr>
<th>Power Type</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Monthly Energy</th>
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<tbody>
<tr>
<td>Solar</td>
<td>12.8 GW</td>
<td>22.02., 12:45 (+1:00)</td>
<td>1.0 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>21.5 GW</td>
<td>15.02., 03:15 (+1:00)</td>
<td>4.6 TWh</td>
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<tr>
<td>Conventional &gt; 100 MW</td>
<td>65.9 GW</td>
<td>08.02., 18:00 (+1:00)</td>
<td>35.9 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
Electricity Production in Germany: March 2012

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /

<table>
<thead>
<tr>
<th>Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Monthly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>17.5 GW</td>
<td>28.03., 13:15 (+2:00)</td>
<td>2.3 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>20.3 GW</td>
<td>31.03., 10:00 (+2:00)</td>
<td>4.0 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>58.9 GW</td>
<td>06.03., 19:00 (+1:00)</td>
<td>32.4 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
Electricity Production in Germany: April 2012

Actual production

<table>
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<th>Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Monthly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>16.8 GW</td>
<td>30.04., 12:45 (+2:00)</td>
<td>2.6 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>16.5 GW</td>
<td>01.04., 23:30 (+2:00)</td>
<td>3.4 TWh</td>
</tr>
<tr>
<td>Konventionell &gt; 100 MW</td>
<td>53.2 GW</td>
<td>05.04., 08:00 (+2:00)</td>
<td>28.0 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
Electricity Production in Germany: May 2012

Actual production

<table>
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<tr>
<th>Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Monthly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>22.4 GW</td>
<td>25.05., 12:45 (+2:00)</td>
<td>4.1 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>14.1 GW</td>
<td>12.05., 17:00 (+2:00)</td>
<td>2.9 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>51.2 GW</td>
<td>31.05., 11:00 (+2:00)</td>
<td>26.6 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
Electricity Production in Germany: June 2012

Actual production

<table>
<thead>
<tr>
<th>Energy Source</th>
<th>Max. Power (GW)</th>
<th>Date Max. Power (DD.MM., HH:MM (+0:00))</th>
<th>Monthly Energy (TWh)</th>
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<tbody>
<tr>
<td>Solar</td>
<td>19.7</td>
<td>30.06., 13:00 (+2:00)</td>
<td>3.7</td>
</tr>
<tr>
<td>Wind</td>
<td>15.3</td>
<td>25.06., 18:45 (+2:00)</td>
<td>2.9</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>50.5</td>
<td>04.06., 11:00 (+2:00)</td>
<td>27.4</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
Electricity Production in Germany: July 2012

Actual production

<table>
<thead>
<tr>
<th>Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Monthly Energy</th>
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<tbody>
<tr>
<td>Solar</td>
<td>21.8 GW</td>
<td>23.07., 13:15 (+2:00)</td>
<td>3.7 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>16.2 GW</td>
<td>19.07., 16:30 (+2:00)</td>
<td>2.6 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>50.3 GW</td>
<td>03.07., 10:00 (+2:00)</td>
<td>27.7 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
Electricity Production in Germany: August 2012

Actual production

<table>
<thead>
<tr>
<th></th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Monthly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>20.6 GW</td>
<td>01.08., 13:15 (+2:00)</td>
<td>3.9 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>12.8 GW</td>
<td>26.08., 14:45 (+2:00)</td>
<td>2.2 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>51.1 GW</td>
<td>30.08., 10:00 (+2:00)</td>
<td>30.0 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
**Electricity Production in Germany: September 2012**

**Actual production**

<table>
<thead>
<tr>
<th>Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Monthly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>19.6 GW</td>
<td>09.09., 13:15 (+2:00)</td>
<td>2.9 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>15.6 GW</td>
<td>14.09., 12:00 (+2:00)</td>
<td>3.0 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>52.7 GW</td>
<td>27.09., 19:00 (+2:00)</td>
<td>30.0 TWh</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
Electricity Production in Germany: October 2012

<table>
<thead>
<tr>
<th>Energy Type</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Monthly Energy</th>
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</thead>
<tbody>
<tr>
<td>Solar</td>
<td>15.7 GW</td>
<td>19.10., 13:15 (+2:00)</td>
<td>1.8 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>21.1 GW</td>
<td>05.10., 15:45 (+2:00)</td>
<td>3.7 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>60.9 GW</td>
<td>24.10., 19:00 (+2:00)</td>
<td>34.0 TWh</td>
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</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
Electricity Production in Germany: November 2012

Actual production

<table>
<thead>
<tr>
<th>Energy Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Monthly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>9.6 GW</td>
<td>13.11., 12:15 (+1:00)</td>
<td>0.8 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>19.7 GW</td>
<td>07.11., 01:00 (+1:00)</td>
<td>3.9 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>64.2 GW</td>
<td>15.11., 18:00 (+1:00)</td>
<td>35.0 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
Electricity Production in Germany: December 2012

Actual production

<table>
<thead>
<tr>
<th>Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Monthly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>8.3 GW</td>
<td>29.12., 12:15 (+1:00)</td>
<td>0.4 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>20.9 GW</td>
<td>31.12., 07:30 (+1:00)</td>
<td>5.6 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>66.5 GW</td>
<td>12.12., 17:00 (+1:00)</td>
<td>32.9 TWh</td>
</tr>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
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Electricity Production in Germany: January 2012

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform; Entso-e
Electricity Production in Germany: February 2012

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform; Entso-e
Electricity Production in Germany: March 2012

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform; Entso-e
Electricity Production in Germany: April 2012

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform; Entso-e
Electricity Production in Germany: May 2012

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform; Entso-e
Electricity Production in Germany: June 2012

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform; Entso-e
Electricity Production in Germany: July 2012

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform; Entso-e
Electricity Production in Germany: August 2012

**Actual production**

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform; Entso-e
Electricity Production in Germany: September 2012

Actual production

displayed month: September 2012

Legend:  
- Export
- Import
- Conventional > 100 MW
- Wind
- Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform; Entso-e
Electricity Production in Germany: October 2012

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform; Entso-e
Electricity Production in Germany: November 2012

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform; Entso-e
Electricity Production in Germany: December 2012

Actual production

Legend:
- Export
- Import
- Conventional > 100 MW
- Wind
- Solar
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Detailed Electricity Production: January 2012

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform and German Federal Statistical Office
Detailed Electricity Production: February 2012

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform and German Federal Statistical Office

Legend:
- Run of River
- Uranium
- Brown Coal
- Hard Coal
- Gas
- Pumped Storage
- Wind
- Solar

Actual production

<table>
<thead>
<tr>
<th>Day</th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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</thead>
<tbody>
<tr>
<td>Min.</td>
<td>1.3</td>
<td>11.0</td>
<td>14.1</td>
<td>3.8</td>
<td>4.2</td>
<td>0</td>
<td>0.23</td>
<td>0</td>
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<tr>
<td>Max.</td>
<td>2.0</td>
<td>12.2</td>
<td>20.6</td>
<td>22.0</td>
<td>22.4</td>
<td>4.0</td>
<td>21.5</td>
<td>12.8</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform and German Federal Statistical Office
Detailed Electricity Production: March 2012

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform and German Federal Statistical Office

Legend:
- Run of River
- Uranium
- Brown Coal
- Hard Coal
- Gas
- Pumped Storage
- Wind
- Solar

Actual production

min. power (GW)
- RoR: 1.2
- Uran: 8.0
- BC: 7.3
- HC: 2.4
- Gas: 2.3
- PSt: 0
- Wind: 0.3
- Solar: 0

max. power (GW)
- RoR: 2.6
- Uran: 12.1
- BC: 20.4
- HC: 21.1
- Gas: 11.8
- PSt: 3.6
- Wind: 20.3
- Solar: 17.5

monthly energy (TWh)
- RoR: 1.4
- Uran: 8.7
- BC: 13.4
- HC: 9.0
- Gas: 4.3
- PSt: 0.54
- Wind: 4.0
- Solar: 2.3

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform and German Federal Statistical Office
Detailed Electricity Production: April 2012

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform and German Federal Statistical Office
Detailed Electricity Production: May 2012

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform and German Federal Statistical Office
Detailed Electricity Production: June 2012

Actual production

<table>
<thead>
<tr>
<th>Date</th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<tr>
<td>01-06</td>
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<td>07-12</td>
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<td>10.5</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform and German Federal Statistical Office.
Detailed Electricity Production: July 2012

Legend:
- Run of River
- Uranium
- Brown Coal
- Hard Coal
- Gas
- Pumped Storage
- Wind
- Solar

- RoR
- Uran
- BC
- HC
- Gas
- PSt
- Wind
- Solar

- min. power (GW)
  - 2.6
  - 5.2
  - 12.4
  - 2.1
  - 1.6
  - 0
  - 0.12
  - 0

- max. power (GW)
  - 2.8
  - 10.6
  - 18.5
  - 17.1
  - 7.8
  - 2.8
  - 16.2
  - 21.8

- monthly energy (TWh)
  - 1.5
  - 6.8
  - 11.5
  - 7.2
  - 2.9
  - 0.50
  - 2.6
  - 3.7

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform and German Federal Statistical Office
Detailed Electricity Production: August 2012

Actual production

min. power (GW)
max. power (GW)
monthly energy (TWh)

Legend: Run of River, Uranium, Brown Coal, Hard Coal, Gas, Pumped Storage, Wind, Solar

RoR Uran BC HC Gas PSt Wind Solar
1.2 10.4 11.7 2.2 1.5 0 0.2 0
2.7 11.9 18.3 15.9 10.2 3.2 12.8 20.6
1.3 8.6 11.2 7.6 2.9 0.49 2.2 3.9

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform and German Federal Statistical Office
Detailed Electricity Production: September 2012

Actual production

<table>
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<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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</thead>
<tbody>
<tr>
<td>min. power (GW)</td>
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<td>9.4</td>
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<td>18.0</td>
<td>10.6</td>
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<tr>
<td>monthly energy (TWh)</td>
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<td>8.0</td>
<td>11.1</td>
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<td>3.1</td>
<td>0.51</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Detailed Electricity Production: October 2012

Actual production

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<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<td>1.0</td>
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<td>2.2</td>
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<td>20.4</td>
<td>21.7</td>
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<tr>
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<td>8.5</td>
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<td>3.9</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Detailed Electricity Production: November 2012

Actual production

<table>
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<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<td>01</td>
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<td>0.15</td>
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<tr>
<td>08</td>
<td>2.2</td>
<td>12.2</td>
<td>21.3</td>
<td>21.8</td>
<td>15.9</td>
<td>3.6</td>
<td>19.7</td>
<td>9.6</td>
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<tr>
<td>15</td>
<td>1.3</td>
<td>8.6</td>
<td>12.9</td>
<td>10.0</td>
<td>4.8</td>
<td>0.57</td>
<td>3.9</td>
<td>0.8</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Detailed Electricity Production: December 2012

Actual production

displayed month: December 2012

Legend:
- Run of River
- Uranium
- Brown Coal
- Hard Coal
- Gas
- Pumped Storage
- Wind
- Solar

<table>
<thead>
<tr>
<th></th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>min. power (GW)</td>
<td>0.9</td>
<td>4.4</td>
<td>8.9</td>
<td>1.2</td>
<td>3.2</td>
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<td>0</td>
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<tr>
<td>max. power (GW)</td>
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<td>12.2</td>
<td>20.7</td>
<td>21.8</td>
<td>22.4</td>
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<td>1.1</td>
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<td>9.4</td>
<td>5.0</td>
<td>5.6</td>
<td>0.4</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

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AGENDA

- Annual energies
- Monthly energies
- Weekly energies
- Annual power curves
- Monthly power curves
  - Monthly power curves for conventional, wind and solar
  - Monthly power curves with import and export
  - Detailed monthly power curves
- Diurnal power courses
- Weekly power curves
- Exemplary daily power curves
Diurnal courses 2012

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
Diurnal courses 2012

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
Diurnal courses 2012 with import and export

Legend:
- Export
- Import
- Conventional > 100 MW
- Wind
- Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform /
Diurnal courses 2012

Legend:
- Uranium
- Brown Coal
- Hard Coal
- Gas
- Run of River
- Pumped Storage
Diurnal courses 2012

Legend:
- Uranium
- Brown Coal
- Hard Coal
- Gas
- Run of River
- Pumped Storage
- Wind
- Solar

Diurnal courses displayed year: 2012

MW

AGENDA

- Annual energies
- Monthly energies
- Weekly energies
- Daily energies
- Annual power curves
- Monthly power curves
- **Weekly power curves**
  - Weekly power curves for conventional, wind and solar
  - Weekly power curves with import and export
  - Detailed weekly power curves
  - Exemplary daily power curves
### Actual production

<table>
<thead>
<tr>
<th>Solar</th>
<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5.6 GW</td>
<td>03.01., 11:30 (+1:00)</td>
<td>0.08 TWh</td>
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<tr>
<td>Wind</td>
<td>24.1 GW</td>
<td>03.01., 17:45 (+1:00)</td>
<td>2.6 TWh</td>
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<tr>
<td>Conventional &gt; 100 MW</td>
<td>43.8 GW</td>
<td>02.01., 17:00 (+1:00)</td>
<td>5.8 TWh</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 2

**Actual production**

<table>
<thead>
<tr>
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<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>7.5 GW</td>
<td>15.01., 12:15 (+1:00)</td>
<td>0.13 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>23.0 GW</td>
<td>12.01., 15:45 (+1:00)</td>
<td>1.6 TWh</td>
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<tr>
<td>Conventional &gt; 100 MW</td>
<td>55.1 GW</td>
<td>10.01., 18:00 (+1:00)</td>
<td>7.2 TWh</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 3

Actual production

<table>
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<th>weekly energy</th>
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<tbody>
<tr>
<td>Solar</td>
<td>8.4 GW</td>
<td>18.01., 12:15 (+1:00)</td>
<td>0.14 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>21.8 GW</td>
<td>22.01., 07:45 (+1:00)</td>
<td>1.6 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>60.3 GW</td>
<td>17.01., 18:00 (+1:00)</td>
<td>7.6 TWh</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 4

Actual production

<table>
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<th>weekly energy</th>
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</thead>
<tbody>
<tr>
<td>Solar</td>
<td>7.9 GW</td>
<td>26.01., 12:00 (+1:00)</td>
<td>0.12 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>11.7 GW</td>
<td>26.01., 19:30 (+1:00)</td>
<td>0.6 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>59.2 GW</td>
<td>24.01., 18:00 (+1:00)</td>
<td>8.2 TWh</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 5

Actual production

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<th>weekly energy</th>
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<tbody>
<tr>
<td>Solar</td>
<td>10.0 GW</td>
<td>05.02., 12:30 (+1:00)</td>
<td>0.29 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>10.9 GW</td>
<td>01.02., 15:00 (+1:00)</td>
<td>0.78 TWh</td>
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<td>Conventional &gt; 100 MW</td>
<td>65.6 GW</td>
<td>02.02., 18:00 (+1:00)</td>
<td>9.1 TWh</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 6

Actual production

<table>
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<tr>
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<th>date max. power</th>
<th>weekly energy</th>
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</thead>
<tbody>
<tr>
<td>Solar</td>
<td>10.1 GW</td>
<td>06.02., 12:15 (+1:00)</td>
<td>0.26 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>8.8 GW</td>
<td>09.02., 16:45 (+1:00)</td>
<td>0.51 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>65.9 GW</td>
<td>08.02., 18:00 (+1:00)</td>
<td>9.6 TWh</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 7

Actual production

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<th>weekly energy</th>
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<tbody>
<tr>
<td>Solar</td>
<td>7.3 GW</td>
<td>16.02., 12:15 (+1:00)</td>
<td>0.15 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>21.5 GW</td>
<td>15.02., 03:15 (+1:00)</td>
<td>1.4 TWh</td>
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<td>Conventional &gt; 100 MW</td>
<td>61.8 GW</td>
<td>13.02., 18:00 (+1:00)</td>
<td>8.3 TWh</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
## Actual production

<table>
<thead>
<tr>
<th>Day</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
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<tbody>
<tr>
<td>Solar</td>
<td>12.8 GW</td>
<td>22.02., 12:45 (+1:00)</td>
<td>0.31 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>20.1 GW</td>
<td>23.02., 00:45 (+1:00)</td>
<td>1.9 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>59.6 GW</td>
<td>20.02., 18:00 (+1:00)</td>
<td>7.6 TWh</td>
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</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 9

**Actual production**

<table>
<thead>
<tr>
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<th>weekly energy</th>
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<tbody>
<tr>
<td>Solar</td>
<td>9.2 GW</td>
<td>03.03., 12:45 (+1:00)</td>
<td>0.26 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>12.5 GW</td>
<td>28.02., 16:15 (+1:00)</td>
<td>0.68 TWh</td>
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<tr>
<td>Conventional &gt; 100 MW</td>
<td>58.7 GW</td>
<td>29.02., 19:00 (+1:00)</td>
<td>8.1 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 10

Actual production

max. power | date max. power | weekly energy
---|---|---
Solar | 14.1 GW | 09.03., 11:45 (+1:00) | 0.41 TWh
Wind | 11.0 GW | 11.03., 05:30 (+1:00) | 1.1 TWh
Conventional > 100 MW | 58.9 GW | 06.03., 19:00 (+1:00) | 7.8 TWh

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 11

**Actual production**

<table>
<thead>
<tr>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
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</thead>
<tbody>
<tr>
<td>Solar</td>
<td>16.4 GW</td>
<td>16.03., 12:00 (+1:00)</td>
</tr>
<tr>
<td>Wind</td>
<td>11.4 GW</td>
<td>18.03., 18:45 (+1:00)</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>58.0 GW</td>
<td>15.03., 19:00 (+1:00)</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 12

Actual production

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<th>weekly energy</th>
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<tr>
<td>Solar</td>
<td>17.4 GW</td>
<td>25.03., 13:15 (+2:00)</td>
<td>0.75 TWh</td>
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<td>Wind</td>
<td>9.8 GW</td>
<td>19.03., 00:00 (+1:00)</td>
<td>0.5 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>57.3 GW</td>
<td>22.03., 19:00 (+1:00)</td>
<td>7.3 TWh</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 13

Actual production

<table>
<thead>
<tr>
<th>Day</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>17.5 GW</td>
<td>28.03., 13:15 (+2:00)</td>
<td>0.65 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>20.3 GW</td>
<td>31.03., 10:00 (+2:00)</td>
<td>1.7 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>51.6 GW</td>
<td>26.03., 08:00 (+2:00)</td>
<td>6.2 TWh</td>
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</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 14

### Actual production

<table>
<thead>
<tr>
<th>Day</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
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<tbody>
<tr>
<td>Solar</td>
<td>14.6 GW</td>
<td>03.04., 12:45 (+2:00)</td>
<td>0.5 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>16.2 GW</td>
<td>02.04., 00:00 (+2:00)</td>
<td>0.71 TWh</td>
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<tr>
<td>Conventional &gt; 100 MW</td>
<td>53.2 GW</td>
<td>05.04., 08:00 (+2:00)</td>
<td>6.6 TWh</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 15

Actual production

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<th>weekly energy</th>
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<tbody>
<tr>
<td>Solar</td>
<td>13.6 GW</td>
<td>10.04., 13:15 (+2:00)</td>
<td>0.52 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>13.0 GW</td>
<td>10.04., 08:45 (+2:00)</td>
<td>0.69 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>52.1 GW</td>
<td>12.04., 09:00 (+2:00)</td>
<td>6.5 TWh</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 16

### Actual production

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<thead>
<tr>
<th>Date</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>14.9 GW</td>
<td>17.04., 13:45 (+2:00)</td>
<td>0.67 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>9.2 GW</td>
<td>16.04., 14:30 (+2:00)</td>
<td>0.73 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>52.4 GW</td>
<td>18.04., 08:00 (+2:00)</td>
<td>7.0 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 17

**Actual production**

<table>
<thead>
<tr>
<th></th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>15.6 GW</td>
<td>27.04., 11:30 (+2:00)</td>
<td>0.7 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>14.9 GW</td>
<td>26.04., 15:00 (+2:00)</td>
<td>0.93 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>50.9 GW</td>
<td>24.04., 11:00 (+2:00)</td>
<td>6.5 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 18

**Actual production**

<table>
<thead>
<tr>
<th>Type</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>18.8 GW</td>
<td>01.05., 12:30 (+2:00)</td>
<td>0.82 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>8.1 GW</td>
<td>30.04., 19:30 (+2:00)</td>
<td>0.48 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>47.9 GW</td>
<td>03.05., 12:00 (+2:00)</td>
<td>5.8 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 19

Actual production

<table>
<thead>
<tr>
<th></th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>18.5 GW</td>
<td>08.05., 12:15 (+2:00)</td>
<td>0.83 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>14.1 GW</td>
<td>12.05., 17:00 (+2:00)</td>
<td>0.86 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>48.3 GW</td>
<td>07.05., 11:00 (+2:00)</td>
<td>6.1 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
### Actual production

<table>
<thead>
<tr>
<th>Day</th>
<th>Max. Power (MW)</th>
<th>Date (HH:mm)</th>
<th>Weekly Energy (TWh)</th>
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</thead>
<tbody>
<tr>
<td>Solar</td>
<td>19.9</td>
<td>14.05., 12:45 (+2:00)</td>
<td>0.99</td>
</tr>
<tr>
<td>Wind</td>
<td>14.0</td>
<td>16.05., 17:45 (+2:00)</td>
<td>0.75</td>
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<td>Conventional &gt; 100 MW</td>
<td>45.0</td>
<td>15.05., 09:00 (+2:00)</td>
<td>5.6</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 21

**Actual production**

<table>
<thead>
<tr>
<th></th>
<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>22.4 GW</td>
<td>25.05., 12:45 (+2:00)</td>
<td>1.1 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>9.1 GW</td>
<td>24.05., 18:45 (+2:00)</td>
<td>0.66 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>47.0 GW</td>
<td>21.05., 09:00 (+2:00)</td>
<td>6.1 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 22

Actual production

<table>
<thead>
<tr>
<th></th>
<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>18.3 GW</td>
<td>29.05., 13:15 (+2:00)</td>
<td>0.85 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>14.8 GW</td>
<td>01.06., 16:15 (+2:00)</td>
<td>0.65 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>51.2 GW</td>
<td>31.05., 11:00 (+2:00)</td>
<td>6.2 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 23

Actual production

<table>
<thead>
<tr>
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<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
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</thead>
<tbody>
<tr>
<td>Solar</td>
<td>14.8 GW</td>
<td>09.06., 14:00 (+2:00)</td>
<td>0.76 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>15.1 GW</td>
<td>09.06., 14:00 (+2:00)</td>
<td>0.67 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>50.5 GW</td>
<td>04.06., 11:00 (+2:00)</td>
<td>6.4 TWh</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 24

Actual production

<table>
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<tr>
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<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>16.7 GW</td>
<td>17.06., 15:15 (+2:00)</td>
<td>0.86 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>9.4 GW</td>
<td>17.06., 12:30 (+2:00)</td>
<td>0.44 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>50.2 GW</td>
<td>11.06., 11:00 (+2:00)</td>
<td>6.5 TWh</td>
</tr>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 25

<table>
<thead>
<tr>
<th>Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>18.4 GW</td>
<td>22.06., 13:15 (+2:00)</td>
<td>0.93 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>13.5 GW</td>
<td>24.06., 21:45 (+2:00)</td>
<td>0.71 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>50.4 GW</td>
<td>21.06., 11:00 (+2:00)</td>
<td>6.5 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 26

### Actual production

<table>
<thead>
<tr>
<th></th>
<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>19.7 GW</td>
<td>30.06., 13:00 (+2:00)</td>
<td>0.93 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>15.3 GW</td>
<td>25.06., 18:45 (+2:00)</td>
<td>0.76 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>48.3 GW</td>
<td>27.06., 12:00 (+2:00)</td>
<td>6.3 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 27

Actual production

<table>
<thead>
<tr>
<th>Energy Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>16.4 GW</td>
<td>04.07., 13:00 (+2:00)</td>
<td>0.81 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>6.6 GW</td>
<td>08.07., 16:30 (+2:00)</td>
<td>0.29 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>50.3 GW</td>
<td>03.07., 10:00 (+2:00)</td>
<td>6.5 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
### Electricity Production in Germany: Calendar Week 28

**Actual production**

<table>
<thead>
<tr>
<th></th>
<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>15.7 GW</td>
<td>10.07., 14:00 (+2:00)</td>
<td>0.81 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>11.6 GW</td>
<td>14.07., 18:00 (+2:00)</td>
<td>0.85 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>46.9 GW</td>
<td>13.07., 9:00 (+2:00)</td>
<td>6.1 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 29

### Actual production

<table>
<thead>
<tr>
<th></th>
<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>16.0 GW</td>
<td>22.07., 13:45 (+2:00)</td>
<td>0.77 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>16.2 GW</td>
<td>19.07., 16:30 (+2:00)</td>
<td>0.94 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>43.0 GW</td>
<td>20.07., 11:00 (+2:00)</td>
<td>5.9 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
# Electricity Production in Germany: Calendar Week 30

## Actual production

<table>
<thead>
<tr>
<th></th>
<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>21.8 GW</td>
<td>23.07., 13:15 (+2:00)</td>
<td>1.0 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>5.8 GW</td>
<td>28.07., 12:30 (+2:00)</td>
<td>0.35 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>48.0 GW</td>
<td>27.07., 11:00 (+2:00)</td>
<td>6.6 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
# Electricity Production in Germany: Calendar Week 31

## Actual production

<table>
<thead>
<tr>
<th></th>
<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>20.6 GW</td>
<td>01.08., 13:15 (+2:00)</td>
<td>0.94 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>7.4 GW</td>
<td>30.07., 15:00 (+2:00)</td>
<td>0.32 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>46.3 GW</td>
<td>31.07., 20:00 (+2:00)</td>
<td>6.5 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 32

**Actual production**

<table>
<thead>
<tr>
<th>Energy Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>19.9 GW</td>
<td>12.08., 12:30 (+2:00)</td>
<td>0.88 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>11.8 GW</td>
<td>07.08., 13:00 (+2:00)</td>
<td>0.59 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>46.9 GW</td>
<td>09.08., 11:00 (+2:00)</td>
<td>6.5 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 33

**Actual production**

<table>
<thead>
<tr>
<th>Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>20.1 GW</td>
<td>18.08., 13:15 (+2:00)</td>
<td>1.0 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>6.5 GW</td>
<td>15.08., 23:15 (+2:00)</td>
<td>0.43 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>49.2 GW</td>
<td>16.08., 10:00 (+2:00)</td>
<td>6.7 TWh</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 34

<table>
<thead>
<tr>
<th>Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>18.8 GW</td>
<td>23.08., 13:15 (+2:00)</td>
<td>0.80 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>12.8 GW</td>
<td>26.08., 14:45 (+2:00)</td>
<td>0.66 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>50.4 GW</td>
<td>21.08., 12:00 (+2:00)</td>
<td>6.9 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

© Fraunhofer ISE
Electricity Production in Germany: Calendar Week 35

Actual production

<table>
<thead>
<tr>
<th>Energy Type</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>18.6 GW</td>
<td>27.08., 13:15 (+2:00)</td>
<td>0.68 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>6.2 GW</td>
<td>27.08., 01:45 (+2:00)</td>
<td>0.35 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>51.1 GW</td>
<td>30.08., 10:00 (+2:00)</td>
<td>7.0 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 36

Actual production

<table>
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<tr>
<th>Type</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>19.6 GW</td>
<td>09.09., 13:15 (+2:00)</td>
<td>0.83 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>8.4 GW</td>
<td>07.09., 05:30 (+2:00)</td>
<td>0.46 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>52.0 GW</td>
<td>05.09., 11:00 (+2:00)</td>
<td>7.1 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 37

Solar
19.3 GW
16.09., 13:15 (+2:00)
0.68 TWh

Wind
15.6 GW
14.09., 12:00 (+2:00)
0.74 TWh

Conventional > 100 MW
51.5 GW
12.09., 09:00 (+2:00)
7.0 TWh

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 38

**Actual production**

<table>
<thead>
<tr>
<th>Solar</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>17.0 GW</td>
<td>20.09., 11:45 (+2:00)</td>
<td>0.70 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>12.3 GW</td>
<td>22.09., 13:30 (+2:00)</td>
<td>0.70 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>51.3 GW</td>
<td>20.09., 19:00 (+2:00)</td>
<td>7.1 TWh</td>
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</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 39

Actual production

<table>
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<tr>
<th>Energy Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>14.7 GW</td>
<td>30.09., 12:30 (+2:00)</td>
<td>0.53 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>14.7 GW</td>
<td>24.09., 20:45 (+2:00)</td>
<td>1.1 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>52.7 GW</td>
<td>27.09., 19:00 (+2:00)</td>
<td>7.1 TWh</td>
</tr>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 40

**Actual production**

<table>
<thead>
<tr>
<th>Energy Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>14.3 GW</td>
<td>02.10., 13:00 (+2:00)</td>
<td>0.47 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>21.1 GW</td>
<td>05.10., 15:45 (+2:00)</td>
<td>1.2 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>55.0 GW</td>
<td>01.10., 19:00 (+2:00)</td>
<td>7.0 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 41

**Actual production**

<table>
<thead>
<tr>
<th></th>
<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>15.6 GW</td>
<td>08.10., 12:30 (+2:00)</td>
<td>0.47 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>11.9 GW</td>
<td>09.10., 14:30 (+2:00)</td>
<td>0.83 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>57.4 GW</td>
<td>08.10., 19:00 (+2:00)</td>
<td>7.4 TWh</td>
</tr>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 42

**Actual production**

<table>
<thead>
<tr>
<th></th>
<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>15.7 GW</td>
<td>19.10., 13:15 (+2:00)</td>
<td>0.51 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>9.8 GW</td>
<td>16.10., 21:00 (+2:00)</td>
<td>0.85 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>55.6 GW</td>
<td>18.10., 19:00 (+2:00)</td>
<td>7.6 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 43

Actual production

<table>
<thead>
<tr>
<th></th>
<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>7.2 GW</td>
<td>28.10., 11:15 (+1:00)</td>
<td>0.22 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>9.2 GW</td>
<td>25.10., 22:45 (+2:00)</td>
<td>0.44 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>60.9 GW</td>
<td>24.10., 19:00 (+2:00)</td>
<td>8.34 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 44

**Actual production**

<table>
<thead>
<tr>
<th>Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>14.0 GW</td>
<td>31.10., 12:15 (+1:00)</td>
<td>0.32 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>15.4 GW</td>
<td>02.11., 10:15 (+1:00)</td>
<td>1.23 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>60.0 GW</td>
<td>30.10., 18:00 (+1:00)</td>
<td>7.30 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 45

**Actual production**

<table>
<thead>
<tr>
<th></th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>8.9 GW</td>
<td>09.11., 11:45 (+1:00)</td>
<td>0.18 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>19.7 GW</td>
<td>07.11., 01:00 (+1:00)</td>
<td>1.34 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>58.4 GW</td>
<td>05.11., 18:00 (+1:00)</td>
<td>7.81 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 46

Actual production

<table>
<thead>
<tr>
<th></th>
<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>9.6 GW</td>
<td>13.11., 12:00 (+1:00)</td>
<td>0.20 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>4.4 GW</td>
<td>12.11., 15:00 (+1:00)</td>
<td>0.31 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>64.2 GW</td>
<td>15.11., 18:00 (+1:00)</td>
<td>8.74 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 47

max. power | date max. power | weekly energy
--- | --- | ---
Solar | 6.4 GW | 22.11., 12:30 (+1:00) | 0.18 TWh
Wind | 17.8 GW | 25.11., 14:45 (+1:00) | 1.00 TWh
Conventional > 100 MW | 63.3 GW | 20.11., 17:00 (+1:00) | 8.37 TWh

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 48

Actual production

<table>
<thead>
<tr>
<th>Energy Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>4.2 GW</td>
<td>01.12., 12:15 (+1:00)</td>
<td>0.08 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>12.2 GW</td>
<td>26.11., 01:00 (+1:00)</td>
<td>0.60 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>63.3 GW</td>
<td>27.11., 18:00 (+1:00)</td>
<td>8.61 TWh</td>
</tr>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 49

**Actual production**

<table>
<thead>
<tr>
<th>Power Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>3.6 GW</td>
<td>08.12., 12:30 (+1:00)</td>
<td>0.09 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>17.1 GW</td>
<td>09.12., 11:15 (+1:00)</td>
<td>1.17 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>65.1 GW</td>
<td>06.12., 17:00 (+1:00)</td>
<td>8.86 TWh</td>
</tr>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 50

**Actual production**

<table>
<thead>
<tr>
<th></th>
<th>max. power</th>
<th>date max. power</th>
<th>weekly energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>3.1 GW</td>
<td>16.12., 11:45 (+1:00)</td>
<td>0.06 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>17.9 GW</td>
<td>14.12., 21:15 (+1:00)</td>
<td>0.99 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>66.5 GW</td>
<td>12.12., 17:00 (+1:00)</td>
<td>8.79 TWh</td>
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</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 51

Actual production

<table>
<thead>
<tr>
<th></th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
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</thead>
<tbody>
<tr>
<td>Solar</td>
<td>3.9 GW</td>
<td>20.12., 12:00 (+1:00)</td>
<td>0.07 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>12.5 GW</td>
<td>23.12., 13:00 (+1:00)</td>
<td>0.81 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>59.9 GW</td>
<td>18.12., 18:00 (+1:00)</td>
<td>7.65 TWh</td>
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</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 52

**Actual production**

<table>
<thead>
<tr>
<th>Energy Source</th>
<th>Max. Power</th>
<th>Date Max. Power</th>
<th>Weekly Energy</th>
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</thead>
<tbody>
<tr>
<td>Solar</td>
<td>8.3 GW</td>
<td>29.12., 12:15 (+1:00)</td>
<td>0.17 TWh</td>
</tr>
<tr>
<td>Wind</td>
<td>20.7 GW</td>
<td>27.12., 05:45 (+1:00)</td>
<td>2.05 TWh</td>
</tr>
<tr>
<td>Conventional &gt; 100 MW</td>
<td>39.3 GW</td>
<td>27.12., 18:00 (+1:00)</td>
<td>4.74 TWh</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
AGENDA

- Annual energies
- Monthly energies
- Weekly energies
- Daily energies
- Annual power curves
- Monthly power curves

Weekly power curves
  - Weekly power curves for conventional, wind and solar
  - Weekly power curves with import and export
  - Detailed weekly power curves
  - Exemplary daily power curves
Electricity Production in Germany: Calendar Week 1

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 2

Actual production

---

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 3

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 4

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 5

Actual production

Legend: Export Import Conventional > 100 MW Wind Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 6

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 7

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 8

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 9

Actual production

Legend: Export | Import | Conventional > 100 MW | Wind | Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 10

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

Legend:
- Export
- Import
- Conventional > 100 MW
- Wind
- Solar

displayed week: CW 10; 2012

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Electricity Production in Germany: Calendar Week 11

Actual production

Legend: Green = Export, Red = Import, Gray = Conventional > 100 MW, Light Green = Wind, Yellow = Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 12

Actual production

Legend:  
- Green: Export  
- Dark Green: Import  
- Grey: Conventional > 100 MW  
- Light Green: Wind  
- Yellow: Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

© Fraunhofer ISE
Electricity Production in Germany: Calendar Week 13

Actual production

Legend:  
- Export
- Import
- Conventional > 100 MW
- Wind
- Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 14

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 15

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 16

Actual production

Legend: Export  Import  Conventional > 100 MW  Wind  Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 17

Actual production

Legend:  
- Export
- Import
- Conventional > 100 MW
- Wind
- Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 18

Actual production

Legend:
- Green: Export
- Dark Grey: Conventional > 100 MW
- Grey: Wind
- Orange: Solar
- Green: Import

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 19

Actual production

Legend: Export, Import, Conventional > 100 MW, Wind, Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 20

Actual production

Legend: Export Import Conventional > 100 MW Wind Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 21

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 22

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 23

Actual production

Legend:  
- Export  
- Import  
- Conventional > 100 MW  
- Wind  
- Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

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Electricity Production in Germany: Calendar Week 24

Actual production

Legend:  
- Export
- Import
- Conventional > 100 MW
- Wind
- Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

Display week: CW 24; 2012
Electricity Production in Germany: Calendar Week 25

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 26

Actual production

Legend: Export, Import, Conventional > 100 MW, Wind, Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 27

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 28

Actual production

Legend:  
- Export  
- Import  
- Conventional > 100 MW  
- Wind  
- Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 29

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 30

Actual production

Legend:  
- Green: Export  
- Green: Import  
- Grey: Conventional > 100 MW  
- Light green: Wind  
- Orange: Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 31

Actual production

-20,000
-10,000
0
10,000
20,000
30,000
40,000
50,000
60,000

Mo 30.07.
Tu 31.07.
We 01.08.
Th 02.08.
Fr 03.08.
Sa 04.08.
Su 05.08.

Legend:  
- Export  
- Import  
- Conventional > 100 MW  
- Wind  
- Solar  

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 32

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 33

Actual production

Legend: Export Import Conventional > 100 MW Wind Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 34

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 35

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 36

**Actual production**

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 37

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

© Fraunhofer ISE
Electricity Production in Germany: Calendar Week 38

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 39

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 40

**Actual production**

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

- No Export, only Import in CW 40

Legend:  
- Export  
- Import  
- Conventional > 100 MW  
- Wind  
- Solar
Electricity Production in Germany: Calendar Week 41

Actual production

Legend:
- Export
- Import
- Conventional > 100 MW
- Wind
- Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 42

Actual production

Legend: Export  Import  Conventional > 100 MW  Wind  Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 43

Actual production

Legend:
- Export
- Import
- Conventional > 100 MW
- Wind
- Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 44

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 46

Actual production

Legend:  
- Export  
- Import  
- Conventional > 100 MW  
- Wind  
- Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 47

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 48

Actual production

Legend:  
- Export
- Import
- Conventional > 100 MW
- Wind
- Solar

Data of import/export to Switzerland is missing from 02.12.2012, 13:00 to 10.12.2012, 11:00!

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 49

Actual production

Data of import/export to Switzerland is missing from 02.12.2012, 13:00 to 10.12.2012, 11:00!

Legend: Export Import Conventional > 100 MW Wind Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 50

Actual production

Data of import/export to Switzerland is missing from 02.12.2012, 13:00 to 10.12.2012, 11:00!

Legend: Export, Import, Conventional > 100 MW, Wind, Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 51

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

Legend:  
- Green: Export  
- Dark green: Import  
- Gray: Conventional > 100 MW  
- Light green: Wind  
- Orange: Solar

displayed week: CW 51; 2012
Electricity Production in Germany: Calendar Week 52

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
AGENDA

- Annual energies
- Monthly energies
- Weekly energies
- Daily energies
- Annual power curves
- Monthly power curves
- **Weekly power curves**
  - Weekly power curves for conventional, wind and solar
  - Weekly power curves with import and export
  - **Detailed weekly power curves**
- Exemplary daily power curves
Electricity Production in Germany: Calendar Week 1

Actual production

<table>
<thead>
<tr>
<th>Day</th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mo</td>
<td>1.6</td>
<td>8.3</td>
<td>11.3</td>
<td>2.2</td>
<td>3.7</td>
<td>0</td>
<td>4.1</td>
<td>0</td>
</tr>
<tr>
<td>Tu</td>
<td>2.2</td>
<td>12.2</td>
<td>16.3</td>
<td>12.0</td>
<td>9.5</td>
<td>3.4</td>
<td>24.1</td>
<td>5.6</td>
</tr>
<tr>
<td>We</td>
<td>0.3</td>
<td>1.9</td>
<td>2.4</td>
<td>1.0</td>
<td>1.0</td>
<td>0.17</td>
<td>2.6</td>
<td>0.08</td>
</tr>
</tbody>
</table>

Legend: Run of River, Uranium, Brown Coal, Hard Coal, Gas, Pumped Storage, Wind, Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 2

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 3

Actual production

<table>
<thead>
<tr>
<th>Day</th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<tbody>
<tr>
<td>Mo</td>
<td>1.5</td>
<td>8.5</td>
<td>10.5</td>
<td>2.4</td>
<td>4.3</td>
<td>0</td>
<td>1.0</td>
<td>0</td>
</tr>
<tr>
<td>Tu</td>
<td>2.4</td>
<td>12.2</td>
<td>18.6</td>
<td>20.7</td>
<td>16.5</td>
<td>3.1</td>
<td>21.8</td>
<td>8.4</td>
</tr>
<tr>
<td>We</td>
<td>0.32</td>
<td>2.0</td>
<td>2.8</td>
<td>2.2</td>
<td>1.4</td>
<td>0.13</td>
<td>1.64</td>
<td>0.14</td>
</tr>
<tr>
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</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 4

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 5

Actual production

```
<table>
<thead>
<tr>
<th>Day</th>
<th>RoR (GW)</th>
<th>Uran (GW)</th>
<th>BC (GW)</th>
<th>HC (GW)</th>
<th>Gas (GW)</th>
<th>PSt (GW)</th>
<th>Wind (GW)</th>
<th>Solar (GW)</th>
<th>Energy (TWh)</th>
</tr>
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<tbody>
<tr>
<td>Mo 30.01.</td>
<td>1.3</td>
<td>11.2</td>
<td>16.2</td>
<td>9.0</td>
<td>5.2</td>
<td>0</td>
<td>0.23</td>
<td>0</td>
<td>0.26</td>
</tr>
<tr>
<td>Tu 31.01.</td>
<td>1.7</td>
<td>12.2</td>
<td>19.5</td>
<td>20.6</td>
<td>22.9</td>
<td>3.8</td>
<td>10.9</td>
<td>10.0</td>
<td>2.0</td>
</tr>
<tr>
<td>We 01.02.</td>
<td>0.26</td>
<td>2.0</td>
<td>3.1</td>
<td>3.0</td>
<td>1.9</td>
<td>0.14</td>
<td>0.78</td>
<td>0.29</td>
<td>3.1</td>
</tr>
</tbody>
</table>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 6

Actual production

<table>
<thead>
<tr>
<th></th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min.</td>
<td>1.1</td>
<td>12.2</td>
<td>17.9</td>
<td>14.5</td>
<td>5.2</td>
<td>0</td>
<td>0.52</td>
<td>0</td>
</tr>
<tr>
<td>Max.</td>
<td>1.7</td>
<td>12.2</td>
<td>19.5</td>
<td>21.9</td>
<td>22.1</td>
<td>3.5</td>
<td>8.8</td>
<td>10.1</td>
</tr>
<tr>
<td>Weekly</td>
<td>0.24</td>
<td>2.0</td>
<td>3.1</td>
<td>3.3</td>
<td>2.0</td>
<td>0.17</td>
<td>0.51</td>
<td>0.26</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 7

Actual production

min. power (GW) | max. power (GW) | weekly energy (TWh)
--- | --- | ---
RoR | Uran | BC | HC | Gas | PSt | Wind | Solar
1.1 | 11.0 | 15.7 | 3.8 | 4.3 | 0 | 0.47 | 0
1.4 | 12.2 | 19.4 | 21.2 | 20.2 | 3.2 | 21.5 | 7.3
0.21 | 2.0 | 3.0 | 2.5 | 1.6 | 0.13 | 1.4 | 0.15

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 8

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 9

Actual production

<table>
<thead>
<tr>
<th></th>
<th>Run of River</th>
<th>Uranium</th>
<th>Brown Coal</th>
<th>Hard Coal</th>
<th>Gas</th>
<th>Pumped Storage</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>min. power (GW)</td>
<td>1.3</td>
<td>11.0</td>
<td>17.0</td>
<td>3.9</td>
<td>4.1</td>
<td>0</td>
<td>0.3</td>
<td>0</td>
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<td>12.2</td>
<td>19.9</td>
<td>19.9</td>
<td>12.0</td>
<td>2.4</td>
<td>12.5</td>
<td>9.2</td>
</tr>
<tr>
<td>weekly energy (TWh)</td>
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<td>3.2</td>
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<td>1.2</td>
<td>0.10</td>
<td>0.69</td>
<td>0.26</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

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Electricity Production in Germany: Calendar Week 10

Actual production

RoR Uran BC HC Gas PSt Wind Solar

min. power (GW) 1.4 8.1 7.2 3.9 2.4 0 1.4 0
max. power (GW) 2.0 12.2 19.9 20.6 11.9 2.4 11.0 14.1
weekly energy (TWh) 0.29 1.9 2.9 2.3 0.91 0.10 1.1 0.41

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

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Electricity Production in Germany: Calendar Week 11

<table>
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<th></th>
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<th>BC</th>
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<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<td>14.6</td>
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<td>12.2</td>
<td>18.9</td>
<td>21.0</td>
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<td>3.4</td>
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<td>2.9</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 12

Actual production

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<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<td>19.03</td>
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<td>13.7</td>
<td>2.9</td>
<td>3.2</td>
<td>0</td>
<td>0.28</td>
<td>0</td>
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<tr>
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<td>2.5</td>
<td>12.1</td>
<td>19.6</td>
<td>20.4</td>
<td>8.8</td>
<td>3.4</td>
<td>9.8</td>
<td>17.4</td>
</tr>
<tr>
<td>21.03</td>
<td>0.38</td>
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<td>3.1</td>
<td>2.0</td>
<td>0.69</td>
<td>0.11</td>
<td>0.5</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 13

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<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>min. power (GW)</td>
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<td>2.4</td>
<td>3.4</td>
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<tr>
<td>max. power (GW)</td>
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<td>18.9</td>
<td>7.1</td>
<td>3.2</td>
<td>20.3</td>
<td>17.5</td>
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<td>0.86</td>
<td>0.12</td>
<td>1.7</td>
<td>0.65</td>
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</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 14

**Actual production**

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<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
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<td>1.9</td>
<td>7.7</td>
<td>11.7</td>
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<tr>
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<td>17.5</td>
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<td>3.0</td>
<td>15.2</td>
<td>14.6</td>
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<td>weekly energy (TWh)</td>
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<td>2.6</td>
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<td>0.69</td>
<td>0.5</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
## Electricity Production in Germany: Calendar Week 15

### Actual production

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<th>RoR</th>
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<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
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<tr>
<td>Mo 09.04.</td>
<td>1.7</td>
<td>7.4</td>
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<td>2.9</td>
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<td>0.21</td>
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</tr>
<tr>
<td>Tu 10.04.</td>
<td>2.2</td>
<td>8.0</td>
<td>16.6</td>
<td>19.6</td>
<td>14.4</td>
<td>3.0</td>
<td>13.0</td>
<td>13.6</td>
</tr>
<tr>
<td>We 11.04.</td>
<td>0.33</td>
<td>1.3</td>
<td>2.5</td>
<td>2.2</td>
<td>1.1</td>
<td>0.12</td>
<td>0.69</td>
<td>0.52</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

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Electricity Production in Germany: Calendar Week 16

Actual production

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<tr>
<th>Day</th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mo 16.04.</td>
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<td>6.2</td>
<td>13.8</td>
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<td>2.9</td>
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<td>0</td>
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<tr>
<td>Tu 17.04.</td>
<td>2.4</td>
<td>8.0</td>
<td>16.5</td>
<td>21.0</td>
<td>12.7</td>
<td>2.7</td>
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<td>14.9</td>
</tr>
<tr>
<td>We 18.04.</td>
<td>0.34</td>
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<td>2.6</td>
<td>2.8</td>
<td>1.0</td>
<td>0.11</td>
<td>0.73</td>
<td>0.67</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 17

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 18

<table>
<thead>
<tr>
<th></th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>min. power (GW)</td>
<td>2.6</td>
<td>6.9</td>
<td>12.0</td>
<td>2.3</td>
<td>2.0</td>
<td>0</td>
<td>0.76</td>
<td>0</td>
</tr>
<tr>
<td>max. power (GW)</td>
<td>2.7</td>
<td>8.0</td>
<td>15.7</td>
<td>17.0</td>
<td>11.3</td>
<td>2.8</td>
<td>8.1</td>
<td>18.8</td>
</tr>
<tr>
<td>weekly energy (TWh)</td>
<td>0.45</td>
<td>1.3</td>
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<td>0.72</td>
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<td>0.48</td>
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</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 19

Actual production

<table>
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<tr>
<th>Day</th>
<th>Run of River</th>
<th>Uranium</th>
<th>Brown Coal</th>
<th>Hard Coal</th>
<th>Gas</th>
<th>Pumped Storage</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mo</td>
<td>2.3</td>
<td>7.7</td>
<td>11.7</td>
<td>3.3</td>
<td>2.6</td>
<td>0</td>
<td>0.26</td>
<td>0</td>
</tr>
<tr>
<td>Tu</td>
<td>2.7</td>
<td>8.8</td>
<td>15.9</td>
<td>17.9</td>
<td>6.7</td>
<td>3.0</td>
<td>14.1</td>
<td>18.5</td>
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<tr>
<td>We</td>
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<td>1.3</td>
<td>2.4</td>
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<td>0.64</td>
<td>0.12</td>
<td>0.86</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 20

RoR Uran BC HC Gas PSt Wind Solar

min. power (GW)
2.6 7.9 12.7 2.7 1.9 0 0.6 0

max. power (GW)
2.9 10.1 15.9 16.7 6.1 3.0 14.0 19.9

weekly energy (TWh)
0.48 1.5 2.4 1.4 0.57 0.12 0.75 0.99

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

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Electricity Production in Germany: Calendar Week 21

Actual production

<table>
<thead>
<tr>
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<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>min. power (GW)</td>
<td>2.6</td>
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<td>11.2</td>
<td>1.5</td>
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<td>11.4</td>
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<td>6.1</td>
<td>3.9</td>
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<tr>
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<td>1.7</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 22

Actual production

<table>
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<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>min. power (GW)</td>
<td>1.7</td>
<td>9.7</td>
<td>11.8</td>
<td>1.9</td>
<td>2.2</td>
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<td>0</td>
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<td>max. power (GW)</td>
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<td>11.5</td>
<td>17.7</td>
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<td>8.7</td>
<td>2.8</td>
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<td>18.3</td>
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<tr>
<td>weekly energy (TWh)</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

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Electricity Production in Germany: Calendar Week 23

Actual production

<table>
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<th></th>
<th>RoR</th>
<th>Uran</th>
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<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<td>min. power (GW)</td>
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<td>max. power (GW)</td>
<td>2.8</td>
<td>10.5</td>
<td>18.6</td>
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<td>5.8</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 24

Actual production

<table>
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<th>RoR</th>
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<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
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<td>0</td>
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<tr>
<td>Tu 12.06</td>
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<td>9.3</td>
<td>18.8</td>
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<td>9.4</td>
<td>3.0</td>
<td>9.4</td>
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<tr>
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<td>2.9</td>
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<td>0.14</td>
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<td>0.86</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

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## Electricity Production in Germany: Calendar Week 25

### Actual production

<table>
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<tr>
<th></th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<tr>
<td>min.</td>
<td>2.2</td>
<td>7.6</td>
<td>13.2</td>
<td>2.5</td>
<td>1.8</td>
<td>0</td>
<td>0.2</td>
<td>0</td>
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<tr>
<td>max.</td>
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<td>9.1</td>
<td>19.1</td>
<td>17.2</td>
<td>8.9</td>
<td>3.0</td>
<td>13.5</td>
<td>18.4</td>
</tr>
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<td>1.8</td>
<td>0.65</td>
<td>0.14</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 26

Actual production

<table>
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<tr>
<th></th>
<th>RoR</th>
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<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<tbody>
<tr>
<td>min. power (GW)</td>
<td>2.6</td>
<td>8.1</td>
<td>6.9</td>
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<td>max. power (GW)</td>
<td>2.8</td>
<td>10.2</td>
<td>18.2</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 27

Actual production

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<th>RoR</th>
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<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
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Legend: Run of River, Uranium, Brown Coal, Hard Coal, Gas, Pumped Storage, Wind, Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 28

Actual production

<table>
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<th>HC</th>
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</table>

min. power (GW)
- RoR: 2.6
- Uran: 6.8
- BC: 12.7
- HC: 2.2

max. power (GW)
- RoR: 2.8
- Uran: 9.0
- BC: 18.5
- HC: 15.7

weekly energy (TWh)
- RoR: 0.46
- Uran: 1.5
- BC: 2.8
- HC: 1.5

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

© Fraunhofer ISE
Electricity Production in Germany: Calendar Week 29

**Actual production**

<table>
<thead>
<tr>
<th>Day</th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<tbody>
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<td>9.2</td>
<td>16.6</td>
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Legend: Run of River, Uranium, Brown Coal, Hard Coal, Gas, Pumped Storage, Wind, Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 30

Actual production

<table>
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<th>Day</th>
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<th>Uranium</th>
<th>Brown Coal</th>
<th>Hard Coal</th>
<th>Gas</th>
<th>Pumped Storage</th>
<th>Wind</th>
<th>Solar</th>
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<tr>
<td>Su 29.07.</td>
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</tbody>
</table>

min. power (GW)  
max. power (GW)  
weekly energy (TWh)  

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 31

Actual production

<table>
<thead>
<tr>
<th></th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>min. power (GW)</td>
<td>2.4</td>
<td>10.0</td>
<td>14.5</td>
<td>3.4</td>
<td>1.6</td>
<td>0</td>
<td>0.27</td>
<td>0</td>
</tr>
<tr>
<td>max. power (GW)</td>
<td>2.7</td>
<td>10.6</td>
<td>17.9</td>
<td>16.3</td>
<td>4.3</td>
<td>1.8</td>
<td>7.4</td>
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<td>weekly energy (TWh)</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 32

RoR Uran BC HC Gas PSt Wind Solar

min. power (GW) | 2.0  | 10.6  | 15.0 | 2.2  | 2.0  | 0    | 0.42 | 0
max. power (GW) | 2.7  | 12.0  | 18.1 | 15.2 | 3.4  | 2.1  | 11.8 | 20.0
weekly energy (TWh) | 0.42 | 2.0   | 2.9  | 1.5  | 0.39 | 0.1  | 0.59 | 0.88

Legend: Run of River, Uranium, Brown Coal, Hard Coal, Gas, Pumped Storage, Wind, Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 33

Actual production

<table>
<thead>
<tr>
<th>Date</th>
<th>Run of River</th>
<th>Uranium</th>
<th>Brown Coal</th>
<th>Hard Coal</th>
<th>Gas</th>
<th>Pumped Storage</th>
<th>Wind</th>
<th>Solar</th>
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<td>3.0</td>
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<tr>
<td>Tu 14.08.</td>
<td></td>
<td>11.5</td>
<td></td>
<td>18.3</td>
<td>13.8</td>
<td></td>
<td>2.8</td>
<td>6.5</td>
</tr>
<tr>
<td>We 15.08.</td>
<td></td>
<td>11.9</td>
<td>14.5</td>
<td>3.0</td>
<td>1.6</td>
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<td>0.29</td>
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<td>18.3</td>
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<td>7.1</td>
<td></td>
<td>2.8</td>
<td>0.43</td>
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<td>18.3</td>
<td>7.1</td>
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<td>18.3</td>
<td>7.1</td>
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<td>0.43</td>
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</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform

© Fraunhofer ISE
Electricity Production in Germany: Calendar Week 34

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 35

Actual production

<table>
<thead>
<tr>
<th></th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<tr>
<td>min. power</td>
<td>1.4</td>
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<td>12.9</td>
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<tr>
<td>max. power</td>
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<td>11.9</td>
<td>18.3</td>
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<td>8.7</td>
<td>3.0</td>
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<td>18.6</td>
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<td>0.68</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
**Electricity Production in Germany: Calendar Week 36**

**Actual production**

![Bar graph showing electricity production across different energy sources for Calendar Week 36, 2012. Legend includes Run of River (RoR), Uranium (Uran), Brown Coal (BC), Hard Coal (HC), Gas, Pumped Storage (PSt), Wind, and Solar.]

- **min. power (GW):**
  - RoR: 2.1
  - Uran: 10.7
  - BC: 14.7
  - HC: 3.6
  - Gas: 1.9
  - PSt: 0
  - Wind: 0.24
  - Solar: 0

- **max. power (GW):**
  - RoR: 2.7
  - Uran: 11.9
  - BC: 19.0
  - HC: 16.0
  - Gas: 6.9
  - PSt: 2.5
  - Wind: 8.4
  - Solar: 19.6

- **weekly energy (TWh):**
  - RoR: 0.42
  - Uran: 2.0
  - BC: 2.9
  - HC: 1.9
  - Gas: 0.57
  - PSt: 0.12
  - Wind: 0.46
  - Solar: 0.83

**Graph:** Bruno Burger, Fraunhofer ISE; **Data:** EEX Transparency Platform
Electricity Production in Germany: Calendar Week 37

Actual production

min. power (GW)
RoR 2.0
Uran 9.5
BC 13.4
HC 3.8

max. power (GW)
RoR 2.7
Uran 12.0
BC 18.2
HC 16.2

weekly energy (TWh)
RoR 0.40
Uran 1.9
BC 2.7
HC 1.9

Legend:
- Run of River
- Uranium
- Brown Coal
- Hard Coal
- Gas
- Pumped Storage
- Wind
- Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 38

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 39

Actual production

<table>
<thead>
<tr>
<th></th>
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<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
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<td>max. power (GW)</td>
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<td>10.8</td>
<td>19.5</td>
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<td>3.0</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 40

Actual production

<table>
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<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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</thead>
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<tr>
<td>Mo</td>
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<td>9.7</td>
<td>14.4</td>
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<td>2.5</td>
<td>0</td>
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<td>0</td>
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<tr>
<td>Tu</td>
<td>2.2</td>
<td>10.8</td>
<td>20.3</td>
<td>19.9</td>
<td>12.0</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
## Electricity Production in Germany: Calendar Week 41

### Actual production

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<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<td>weekly energy (TWh)</td>
<td>0.34</td>
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<td>2.9</td>
<td>2.3</td>
<td>0.91</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 42

**Actual production**

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<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<td>3.3</td>
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<td>0.14</td>
<td>0.85</td>
<td>0.51</td>
</tr>
<tr>
<td>Fr 19.10.</td>
<td>0.31</td>
<td>2.0</td>
<td>3.1</td>
<td>2.4</td>
<td>0.64</td>
<td>0.14</td>
<td>0.85</td>
<td>0.51</td>
</tr>
<tr>
<td>Sa 20.10.</td>
<td>0.31</td>
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<td>3.1</td>
<td>2.4</td>
<td>0.64</td>
<td>0.14</td>
<td>0.85</td>
<td>0.51</td>
</tr>
<tr>
<td>Su 21.10.</td>
<td>0.31</td>
<td>2.0</td>
<td>3.1</td>
<td>2.4</td>
<td>0.64</td>
<td>0.14</td>
<td>0.85</td>
<td>0.51</td>
</tr>
</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 43

Actual production

<table>
<thead>
<tr>
<th>Day</th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon</td>
<td>0.7</td>
<td>3.8</td>
<td>15.5</td>
<td>3.5</td>
<td>2.1</td>
<td>0</td>
<td>0.12</td>
<td>0</td>
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<tr>
<td>Tue</td>
<td>2.1</td>
<td>12.2</td>
<td>20.8</td>
<td>21.7</td>
<td>11.7</td>
<td>3.1</td>
<td>9.2</td>
<td>7.2</td>
</tr>
<tr>
<td>Wed</td>
<td>0.14</td>
<td>1.6</td>
<td>3.1</td>
<td>2.6</td>
<td>0.93</td>
<td>0.14</td>
<td>0.44</td>
<td>0.22</td>
</tr>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 44

Actual production

<table>
<thead>
<tr>
<th>Day</th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<tbody>
<tr>
<td>Mo 29.10</td>
<td>0.7</td>
<td>3.8</td>
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</tr>
<tr>
<td>Tu 30.10</td>
<td>1.9</td>
<td>12.2</td>
<td>20.6</td>
<td>19.9</td>
<td>14.1</td>
<td>3.5</td>
<td>15.4</td>
<td>14.0</td>
</tr>
<tr>
<td>We 31.10</td>
<td>0.28</td>
<td>1.9</td>
<td>3.2</td>
<td>1.8</td>
<td>0.83</td>
<td>0.11</td>
<td>1.23</td>
<td>0.32</td>
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</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 45

Actual production

<table>
<thead>
<tr>
<th></th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
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<tbody>
<tr>
<td>min. power (GW)</td>
<td>1.6</td>
<td>6.6</td>
<td>14.6</td>
<td>3.5</td>
<td>2.5</td>
<td>0</td>
<td>1.9</td>
<td>0</td>
</tr>
<tr>
<td>max. power (GW)</td>
<td>2.2</td>
<td>12.2</td>
<td>21.5</td>
<td>18.5</td>
<td>8.4</td>
<td>3.4</td>
<td>19.7</td>
<td>8.9</td>
</tr>
<tr>
<td>weekly energy (TWh)</td>
<td>0.32</td>
<td>1.9</td>
<td>3.3</td>
<td>2.1</td>
<td>0.83</td>
<td>0.13</td>
<td>1.34</td>
<td>0.18</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 46

Actual production

min. power (GW) 1.6 11.8 17.5 5.1 2.8 0 0.15 0
max. power (GW) 2.0 12.2 21.6 21.2 13.5 3.4 4.4 9.6
weekly energy (TWh) 0.31 2.0 3.4 2.8 1.2 0.14 0.31 0.2

Legend: Run of River Uranium Brown Coal Hard Coal Gas Pumped Storage Wind Solar

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 47

Actual production

<table>
<thead>
<tr>
<th></th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>min. power (GW)</td>
<td>1.23</td>
<td>10.3</td>
<td>14.2</td>
<td>4.1</td>
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<td>6.4</td>
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<tr>
<td>weekly energy (TWh)</td>
<td>0.27</td>
<td>2.0</td>
<td>3.3</td>
<td>2.7</td>
<td>1.2</td>
<td>0.12</td>
<td>1.0</td>
<td>0.18</td>
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</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 48

Actual production

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 49

Actual production

min. power (GW) | max. power (GW) | weekly energy (TWh)
---|---|---
RoR | Uran | BC | HC | Gas | PSt | Wind | Solar
0.91 | 12.1 | 16.5 | 6.5 | 3.8 | 0 | 0.73 | 0
1.63 | 12.2 | 20.8 | 22.0 | 16.4 | 2.9 | 17.1 | 3.6
0.24 | 2.0 | 3.2 | 3.0 | 1.4 | 0.13 | 1.2 | 0.09

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 50

Actual production

displayed week: CW 50; 2012

Legend: Run of River Uranium Brown Coal Hard Coal Gas Pumped Storage Wind Solar

min. power (GW)
- RoR: 1.12
- Uran: 9.4
- BC: 16.9
- HC: 5.5
- Gas: 4.3
- PSt: 0
- Wind: 1.3
- Solar: 0

max. power (GW)
- RoR: 1.67
- Uran: 12.2
- BC: 20.9
- HC: 21.7
- Gas: 22.3
- PSt: 3.8
- Wind: 17.9
- Solar: 3.1

weekly energy (TWh)
- RoR: 0.24
- Uran: 1.8
- BC: 3.2
- HC: 2.9
- Gas: 1.6
- PSt: 0.14
- Wind: 0.99
- Solar: 0.06

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 51

**Actual production**

<table>
<thead>
<tr>
<th>Day</th>
<th>RoR (GW)</th>
<th>Uran (GW)</th>
<th>BC (GW)</th>
<th>HC (GW)</th>
<th>Gas (GW)</th>
<th>PSt (GW)</th>
<th>Wind (GW)</th>
<th>Solar (GW)</th>
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</thead>
<tbody>
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<td>8.9</td>
<td>11.4</td>
<td>2.6</td>
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<tr>
<td>Tu</td>
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<td>3.1</td>
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Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Electricity Production in Germany: Calendar Week 52

Actual production

<table>
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<td>PSt</td>
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</tr>
<tr>
<td>Wind</td>
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<tr>
<td>Solar</td>
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<td></td>
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</tbody>
</table>

Legend:  
- **RoR**: Run of River  
- **Uran**: Uranium  
- **BC**: Brown Coal  
- **HC**: Hard Coal  
- **Gas**: Gas  
- **PSt**: Pumped Storage  
- **Wind**: Wind  
- **Solar**: Solar

<table>
<thead>
<tr>
<th>min. power (GW)</th>
<th>RoR</th>
<th>Uran</th>
<th>BC</th>
<th>HC</th>
<th>Gas</th>
<th>PSt</th>
<th>Wind</th>
<th>Solar</th>
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<tbody>
<tr>
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<td>7.1</td>
<td>9.3</td>
<td>1.9</td>
<td>3.3</td>
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<td>2.1</td>
<td>0</td>
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<tr>
<td>max. power (GW)</td>
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<td>12.0</td>
<td>18.2</td>
<td>8.7</td>
<td>5.6</td>
<td>3.6</td>
<td>20.7</td>
<td>8.3</td>
</tr>
<tr>
<td>weekly energy (TWh)</td>
<td>0.29</td>
<td>1.7</td>
<td>2.2</td>
<td>0.6</td>
<td>0.7</td>
<td>0.15</td>
<td>2.1</td>
<td>0.17</td>
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</tbody>
</table>

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
AGENDA

- Annual energies
- Monthly energies
- Weekly energies
- Daily energies
- Annual power curves
- Monthly power curves
- Weekly power curves
- Exemplary daily power curves
Day of maximum peak wind power production (in GW) 
Tuesday 3rd of January

- **Solar**: max. 5.6 GW; 24.5 GWh
- **Wind**: max. 24.1 GW at 16:45 (+1:00); 463 GWh
- **Conventional**: max. 37.4 GW; 782 GWh

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Date of maximum total wind power production (in GWh)
Thursday 5\textsuperscript{rd} of January

\begin{itemize}
  \item Solar: max. 1.2 GW; 5.1 GWh
  \item Wind: max. 23.4 GW at 4:15 (+1:00); 526 GWh
  \item Conventional: max. 39.1 GW; 822 GWh
\end{itemize}

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Date of maximum total and peak solar power production (both in GW and GWh): **Friday 25th of May**

- **Solar:** max. 22.4 GW at 12:45 (+2:00); 189 GWh
- **Wind:** max. 7.0 GW; 108 GWh
- **Conventional:** max. 44.1 GW; 892 GWh

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Date of maximum total and peak conventional power production (both in GW and GWh): **Wed. 8th of February**

- **Solar:** max. 7.3 GW; 37 GWh
- **Wind:** max. 7.4 GW; 99 GWh
- **Conventional:** max. 65.9 GW um 18:00 (+1:00); 1 446 GWh

Graph: Bruno Burger, Fraunhofer ISE; Data: EEX Transparency Platform
Thank you for your Attention!

Fraunhofer Institute for Solar Energy Systems ISE
Prof. Dr. Bruno Burger

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bruno.burger@ise.fraunhofer.de