energy solutions – made in Germany

Energy Generation and Energy Efficiency in industry and tourism sector

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Consultant on behalf of the German Energy Solutions Initiative
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Content

1. The German Energy Solutions Initiative
2. The Energy Transition in Germany
Our Aims

**Promotion** of renewable energy and energy efficient technologies

**Showcase** sustainable energy solutions

**Implementation** of projects

**Know-how transfer**

Contribution to international **climate protection**
How can you participate and meet German enterprises?

- Foreign trade fairs
- Trade missions
- Networking opportunities
- Fact finding missions
- Know-how transfer
- Information
- Capacity building
- Project development & flagship projects
Know-how transfer

Fact finding missions
✓ Missions to Germany for foreign companies & decision-makers
✓ Visit of best practices and applied solutions

Project development & flagship projects
✓ Facilitating business partnerships and know-how transfer

Capacity building
Information about Events and German companies

On our website you can find:

✓ Information about technologies made in Germany on a Database

✓ Current news and upcoming events

✓ www.german-energy-solutions.de

✓ You may also always contact us!
The German Energiewende
Electricity Demand and Generation in Germany in 2022

One week in August 2022

One week in November 2022

Source: Agora Energiewende
The Energiewende is multidimensional

- Energy efficiency
- Renewable heat and power
- Mobility
- EU
- International relations
- Social issues, public acceptance
- Electricity market reform
- Nuclear waste storage
- Households + consumers
- Conventional power plants
- Grid upgrade
- Storage
- Finance and investors
- Technology, Research, IT
- Agriculture

Source: RENAC
Renewable energy development in Germany since 1990

* incl. solid and liquid biomass, biogas incl. biomethane, sewage gas and landfill gas as well as the biogenic fraction of waste, from 2010 incl. sewage sludge; BMWi based on Working Group on Renewable Energy-Statistics (AGEE-Stat); as at February 2018; all figures provisional
Renewable energy development in Germany since 1990

Sources: AGEB 2018, AGEE-Stat 2019
### Targets of the Energiewende until 2050

<table>
<thead>
<tr>
<th>Category</th>
<th>Target Description</th>
<th>2018</th>
<th>2020</th>
<th>2030</th>
<th>2040</th>
<th>2050</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Climate</strong></td>
<td>% greenhouse gas reduction (vs. 1990)</td>
<td>30.8%</td>
<td>40%</td>
<td>55%</td>
<td>70%</td>
<td>80-95%</td>
</tr>
<tr>
<td><strong>Renewable energy</strong></td>
<td>% gross final energy consumption</td>
<td>16.9%</td>
<td>18%</td>
<td>30%</td>
<td>45%</td>
<td>60%</td>
</tr>
<tr>
<td></td>
<td>% gross electricity consumption</td>
<td>38.2%</td>
<td>Min 35%</td>
<td>Min 50%</td>
<td>Min. 65%</td>
<td>Min 80%</td>
</tr>
<tr>
<td></td>
<td>Share in heat consumption</td>
<td>13.9%</td>
<td>14%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Share in Transport sector</td>
<td>5.6%</td>
<td>10% (EU)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Energy efficiency</strong></td>
<td>% primary energy consumption (vs. 2008)</td>
<td>-11.4%</td>
<td>-20%</td>
<td></td>
<td></td>
<td>-50%</td>
</tr>
<tr>
<td></td>
<td>Gross electricity consumption (vs. 2008)</td>
<td>-3.3%*</td>
<td>-10%</td>
<td></td>
<td></td>
<td>-25%</td>
</tr>
<tr>
<td></td>
<td>Primary energy demand (buildings) (2008)</td>
<td>-18.3%*</td>
<td></td>
<td></td>
<td></td>
<td>- 80 %</td>
</tr>
<tr>
<td></td>
<td>Heat consumption (buildings) (vs. 2008)</td>
<td>-6.9%*</td>
<td>-20%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Transport</strong></td>
<td>Final energy consumption in transport sector (vs. 2005)</td>
<td>+6.5%*</td>
<td>-10%</td>
<td></td>
<td></td>
<td>-40%</td>
</tr>
<tr>
<td></td>
<td>Number of Electric vehicles (1/2018) (hybrid cars)</td>
<td>83.175 (341.411)</td>
<td>(1 million) 2022</td>
<td>(6 million)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The energy transition follows a transparent long-term strategy with specific targets.
The energy transition has numerous positive effects on various levels.
Benefits - reduce costs of energy imports

Saved energy imports in billion €

Renewable sources of energy saved € 8,8 billion in 2015.

Data source: DLR/DIW/GWS 2016
# German Delegation

<table>
<thead>
<tr>
<th>Company</th>
<th>Name of Representative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aschoff Solar GmbH</td>
<td>Carsten Aschoff</td>
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<tr>
<td>EBK Energy</td>
<td>Ersin Gül</td>
</tr>
<tr>
<td>Ecogas GmbH</td>
<td>Hubert Altenried</td>
</tr>
<tr>
<td>KEC-Kretschmer Energie Consulting GmbH</td>
<td>Roland Kretschmer</td>
</tr>
<tr>
<td>P.A.S.I Pumpen und Armaturen Service International GmbH</td>
<td>Philipp Sonnenburg</td>
</tr>
</tbody>
</table>
Contact

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