Bärbel Höhn
Vice-Chair Green Party group German Bundestag

EU 2020 Renewables Targets – is Germany on track to deliver?

11th Inter-Parliamentary Meeting on Renewable Energy

Stockholm, September 30th, 2011
2011: A great year for Renewables!

Renewable power share

<table>
<thead>
<tr>
<th>Year</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011 (H1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Share</td>
<td>15.1%</td>
<td>16.3%</td>
<td>17.0%</td>
<td>20.8%</td>
</tr>
</tbody>
</table>

Bärbel Höhn: 2020 Renewables Targets
# Germany’s 2020 Renewables targets

<table>
<thead>
<tr>
<th>Share of Renewables</th>
<th>Binding target</th>
<th>NREAP-target</th>
<th>2010 share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross final energy consumption</td>
<td>18.0%</td>
<td>19.6%</td>
<td>10.9%</td>
</tr>
<tr>
<td>Electricity</td>
<td>35.0%</td>
<td>38.6%</td>
<td>17.0%</td>
</tr>
<tr>
<td>Heat</td>
<td>14.0%</td>
<td>15.5%</td>
<td>9.5%</td>
</tr>
<tr>
<td>Transport</td>
<td>10.0%</td>
<td>13.2%</td>
<td>5.8% biofuels</td>
</tr>
</tbody>
</table>
Wind onshore target: 36,000 MW

Development of the number and installed capacity of wind energy plants in Germany

- Wind onshore target: 36,000 MW
- Number of plants and cumulative installed capacity [MW]

Amendment to BauGB: November 1997
EEG: April 2000
EEG: August 2004
EEG: January 2009

Source: C. Ender: "Wind Energy Use in Germany - Status 31.12.2010"; Deutsches Windenergie-Institut (DEWI);
1 MW = 1 Mill. Watt; image: BMU / Brigitte Hiss; all figures provisional
New targets for Germany’s wind energy laggards

+18,000 MW until 2020
Offshore target: 10.000 MW

in doubt

Operating 2011: 108 MW

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Solar target: 52,000 MWp

Installed capacity and energy supply from photovoltaic installations in Germany

Electricity supply [GWh]

installed capacity [MWp]

Source: BMU-KI III 1 according to Working Group on Renewable Energy-Statistics (AGEE-Stat);
1 GWh = 1 Mill. kWh; 1 MW = 1 Mill. Watt; image: BMU / Bernd Müller; as at: July 2011; all figures provisional

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Heat target: 170 GWh

Contribution of renewable energy sources to heat supply in Germany

Biomass share of RES - heat: 92%

* Solid and liquid biomass, biogas, sewage and landfill gas, biogenic share of waste; 1 GWh = 1 Mill. kWh; RES: Renewable energy sources;
Source: BMU-KI III 1 according to Working Group on Renewable Energy-Statistics (AGEE-Stat); Image: BMU / Brigitte Hiss; as at: July 2011; all figures provisional

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Fuel target: 65,000 MWh

Contribution of renewable energy sources to fuel supply in Germany

Bioethanol
Vegetable oil
Biodiesel

Vegetable oil as a part of biogenic fuels used since 1992, Bioethanol since 2004; 1 GWh = 1 Million kWh;
Source: BMU-KI III 1 according to Working Group on Renewable Energy-Statistics (AGEE-Stat); image: BMU / Dieter Böhme; as at: July 2011; all figures provisional

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What’s next?

• Electricity: Don’t mess with the feed-in tariff!

• Heat: Expand the Renewable Heat Law!

• Transport: Push Electric cars and pure biofuels!

• Overall: Support the Energy Efficency Directive!

• Aim for higher Renewable targets!