Contributions of wind to a 100% RES Europe

Giles Dickson
CEO, WindEurope
Wind power across Europe

160 GW
10.4% of 2016 EU power demand

GW installed
Penetration
### Daily wind power numbers

19.9% of European electricity demand was met by wind energy

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country</th>
<th>Wind Share</th>
<th>Wind Generation (GWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Denmark</td>
<td>57%</td>
<td>47 GWh</td>
</tr>
<tr>
<td>2</td>
<td>Germany</td>
<td>51%</td>
<td>631 GWh</td>
</tr>
<tr>
<td>3</td>
<td>Romania</td>
<td>33%</td>
<td>54 GWh</td>
</tr>
<tr>
<td>4</td>
<td>Ireland</td>
<td>30%</td>
<td>27 GWh</td>
</tr>
<tr>
<td>5</td>
<td>Portugal</td>
<td>29%</td>
<td>35 GWh</td>
</tr>
<tr>
<td>6</td>
<td>United Kingdom</td>
<td>27%</td>
<td>193 GWh</td>
</tr>
<tr>
<td>7</td>
<td>Austria</td>
<td>22%</td>
<td>33 GWh</td>
</tr>
<tr>
<td>8</td>
<td>Greece</td>
<td>21%</td>
<td>23 GWh</td>
</tr>
<tr>
<td>9</td>
<td>Netherlands</td>
<td>20%</td>
<td>58 GWh</td>
</tr>
<tr>
<td>10</td>
<td>Spain</td>
<td>18%</td>
<td>113 GWh</td>
</tr>
</tbody>
</table>

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7 October 2017
Economic contribution

- 330,000 jobs
- €72bn 2015 turnover
- €8bn exported in 2015
- €27.5bn invested in 2016
Revamping regions

83 million EU residents live in a lagging region

Green Port Hull
£310m invested, 1,000 jobs
Community benefits

Green Port Hull £310m invested, 1,000 jobs

83 million EU residents live in a lagging region
The road to 2020

204 GW
of EU power demand

16.5%
Wind and other RES in the EU

2017-2020 installations

Sources: WindEurope, IEA Mid-Term Renewable market report, SolarPower Europe
Cumulative installations by 2030

- 397 GW (37.6%)
- 323 GW (29.6%)
- 256 GW (21.6%)
Share of wind in the EU’s power demand

EU28

Denmark
Ireland
Estonia
Netherlands
Germany
Portugal
UK
Spain
Belgium
Greece
France
Poland
Cyprus
Romania
Sweden
Lithuania
Croatia
Austria
Latvia
Finland
Italy
Bulgaria
Czech Republic
Malta
Luxembourg
Slovakia
Hungary
Slovenia


Top 8
Denmark 73.5%
Ireland 67.4%
Estonia 58.9%
The Netherlands 50.3%
Germany 46.7%
Portugal 39.0%
United Kingdom 38.0%
Spain 34.2%

EU share = 29.6%
323 GW by 2030 =

• EU power demand: 10.4% → 29.6%

• Avoided fossil fuel imports: €5bn → €13.2bn

• Avoided CO2 emissions: 166 MT → 382 Mt

• Jobs: 330,000 → 569,000

All this generates €239bn of investments
5 CEP priorities

- **Priority dispatch** for *existing* RES
- **3 years visibility** for renewables support
- Clear and ambitious **National Energy and Climate Action Plans**
- Clear design rules for RES support mechanisms including **technology specific tenders**
- Clear rules for **Guarantees of Origin** to help corporate PPAs
THIS YEAR, THE WIND INDUSTRY WILL BE MEETING IN AMSTERDAM
28 - 30 NOVEMBER 2017
Amsterdam RAI Exhibition and Convention Centre

Wind Europe Conference & Exhibition 2017
28-30 November
Amsterdam

wind europe.org/confex2017
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