Fundamentals of wind energy

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EU is importing 54% of its energy...

<table>
<thead>
<tr>
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<th>EU share of proven global reserves</th>
<th>Years of domestic production</th>
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</thead>
<tbody>
<tr>
<td><strong>Oil</strong></td>
<td>0.5% - 0.8%</td>
<td>7.7– 7.8 years</td>
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<tr>
<td><strong>Gas</strong></td>
<td>1.4% - 2%</td>
<td>14.4– 14.8 years</td>
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<tr>
<td><strong>Coal</strong></td>
<td>3.5%</td>
<td>50 years</td>
</tr>
<tr>
<td><strong>Uranium</strong></td>
<td>1.9%</td>
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*Source: European Commission, 2008*
... but wind now leads the EU power sector

NEW POWER CAPACITY INSTALLED IN 2008
Total installed: 23,851 MW

Note: Preliminary figures for solar photovoltaic installations
Source: EWEA, EPIA and Platts PowerVision
Wind is following standard development path

16 years of global wind energy development (1991-2006) compared to the first 16 years of nuclear development (1961-1976)

Source: EWEA – IAEE
Wind energy expansion

Rising energy demand and contribution from wind power

**1980s-1990s**
- Two decades to install 0.9% of EU electricity demand
- Demand: 2,577 TWh

**2008**
- Accelerating pace: reaching 4.2% end 2008
- Demand: 3,380 TWh

**2020**
- 11.6%-14.3% despite growing demand
- Demand: 4,107 TWh

**2030**
- Meeting between 20.8% & 28.2% of the EU need
- Demand: 4,503 TWh

Source: EWEA
THANK YOU VERY MUCH FOR YOUR ATTENTION

For more information visit www.ewea.org