Wind power
Will the success continue and where?

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British Wind Energy Association

Mission:

‘BWEA (British Wind Energy Association) champions the sustainable growth of the wind industry to maximise the environmental and economic benefits to the UK’
BWEA

• 278 Corporate Members (representing all grid connected supply in the UK)
• All sectors of the industry
• Government ↔ Industry interface
• Lobbying (Energy and planning policy)
• Coordination with other trade associations
• Best practice
• Information source
Installed Wind Power in the World
- Annual and Cumulative -

Year

MW per year

Cumulative MW

Global installed wind capacity
end 2002 (total 32GW)

- America, 5,087
- South & East Asia, 2,186
- Pacific Region, 730
- Africa, 148
- Other, 54
- Europe, 23,832
European installed capacity
end 2002 (total 24 GW)
EWEA targets

• Revised upwards four times
• Now stands at 75,000MW by 2010 with 10,000MW offshore
• And 180,000MW by 2020 with 70,000MW offshore

13% of Europe’s electricity cf >1% today
Country Attractiveness Index

The diagram shows the attractiveness index for various countries. The index is measured on a scale from 0 to 80. The countries listed from left to right are Austria, Belgium, Norway, Netherlands, Sweden, Denmark, Ireland, Portugal, France, Greece, Australia, Italy, Spain, Germany, US Texas, and the UK. The UK has the highest attractiveness index, followed by Spain, Germany, and US Texas. The countries with the lowest index are Austria, Belgium, Norway, and Netherlands.
Installed MW to date UK - 2002

On & Offshore: Total April 2003 = 560MW
Wind today in the UK

• 586MW now installed – 1030 turbines
  - annual generation 1.54 TWh
  - 0.5% of UK electricity supply
  - Generating electricity for some 380,000 homes
  - 1.3 million tonnes of CO2 saved per year
Renewable Obligation a driver for wind
MW submitted to planning

![Bar chart showing MW submitted to planning over years 2000-01 to 2003-4 with prediction. The chart distinguishes between Wales, Scotland, NI, England, and prediction categories.]
Onshore Approval Rate - Local & Devolved Parliament
40% of European wind resource

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... and even more offshore
**Round One**

- 18 potential sites
- 30 turbines per site
- 2-4.2MW machines
- 1.4GW
- ca.
- **1% of total UK electricity supply**
Round Two
Round Two

powering 1 in 6 UK households by 2010 …
The future: 2GW by end 2005
BTM prediction by 2007

- BTM prediction for 2007 is for 3.5GW

- 2.5GW onshore and 1GW offshore

- UK build rates of 900MW a year by 2007

Government renewable targets

Source: DTI

Source: David Millborrow, DM Energy
2010: How much?

Wind expected to meet most of Government’s 2010 target

8% (8GW) of UK supply from wind alone by 2010
BWEA: championing the UK wind industry
Next showing at ...