Status and Outlook for the Wind Sector

Giles Dickson
Wind energy in Europe

GW installed

Wind share of demand

194 GW

14% of 2018 EU power demand

Capacity by H1 2019
Wind is the cheapest form of new power generation.

Levelised cost of electricity/MWh

- Onshore wind: 55€
- Offshore wind: 65€
- Solar: 68€
- Gas: 70€
- Coal: 72€
- Nuclear: 113€

Source: Bloomberg New Finance (2016-prices), Year of FID.
Prices reflect North Western European market conditions, which express a global trend. Specific prices may vary across regions.
* Offshore: Hornsea 2, UK (cost including transmission) ** Nuclear: Hinkley Point, UK
Capacity factors 1983 - 2018

Source: IRENA (2019)
Wind the no. 1 power source in the EU by 2027

according to IEA
Wind capacity 2018 to 2050

Sources: WindEurope, European Commission
Offshore wind is set to become the largest source of electricity in the European Union by 2040, complementing other renewables towards a fully decarbonised power system.
NECPs are not sufficient to reach targets
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Do people want wind?
A majority of people living close to wind farms are happy with them.

75% Switzerland
80% France
86% Germany
Engage communities

Generating and saving energy together for the benefit of all.
Grid Transmission projects under construction
Grid Transmission projects in permitting
Grid Transmission projects planned but not yet permitted.
Grid Transmission projects under consideration
Wind farm ageing
The growth of onshore turbines

Source: BWE
Repowering potential

Change in wind farm capacity

Change in number of turbines
Where it’s possible to repower wind farms in Germany, September 2019

- **Repowering possible**
- **Repowering might be possible in the future**
- **Repowering not possible**

Source: Enercon
The wind value chain is everywhere here.
Jobs in construction
Jobs in offshore installations
Jobs in logistics
Jobs in danger

>300,000

38,000
THANK YOU