Ørsted in offshore wind

Energy & Transport summit III



Thomas Thune Andersen Chairman, Board of Directors

Ørsted develops green energy systems



- Revenue (2017): DKK 59.5bn
- EBITDA (2017): DKK 22.5bn
- 5,638 employees
- Active in Scandinavia, United Kingdom, Germany, The Netherlands, USA and Taiwan





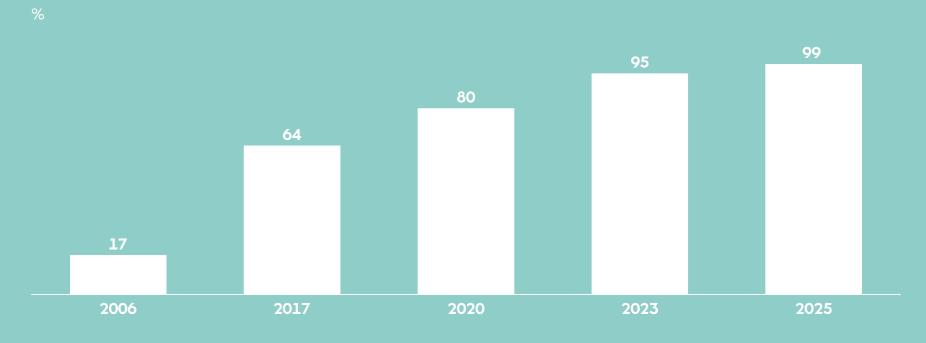
Our vision Let's create a world that runs entirely on green energy





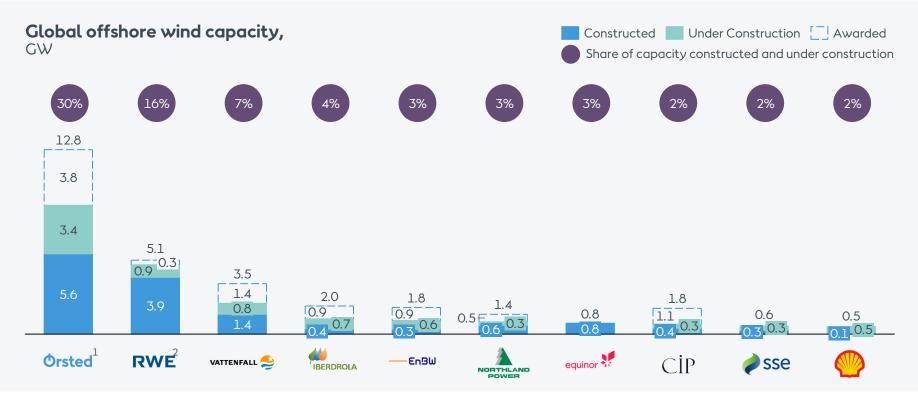
We are transforming the company from black to green energy

Share of green power





Ørsted is uniquely positioned in offshore wind



Orsted

Note: Awarded includes project capacity secured through auctions and beauty contests since 2015, where FID has not yet been taken

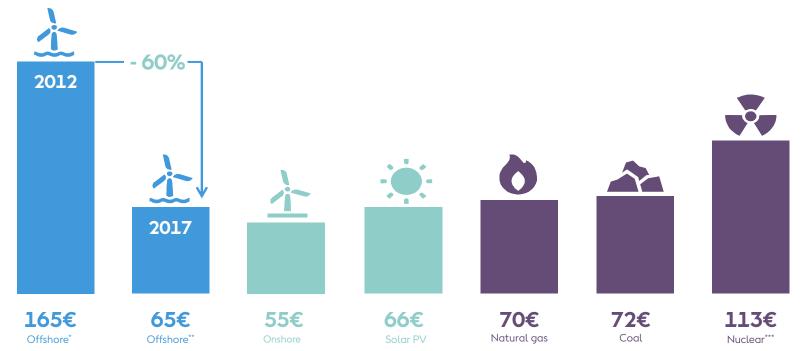
1. Includes Deepwater Wind

5

2. RWE capacity based on combined Innogy and E.ON offshore wind portfolio

We have brought the cost of offshore wind down below conventional power plants

Levelized Cost of Electricity, EUR/MWh^{1,} 2016 prices



Source: Bloomberg New Energy Finance (BNEF) for CCGT and Coal plants for Northwest Europe, Danish Energy Agency and BNEF for Offshore Wind. For offshore wind: Including cost of transmission – Calculated as Levelized revenue (subsidy and market price) of electricity over 25yrs lifetime as a proxy for the levelized cost of society. 3,5% real discount rate used. *Generic Offshore Wind, Northwest Europe, FID 2012. In 2012 our goal was to reduce offshore wind costs to 100 Euro/MWh in 2020, ** Hornsea 2, UK, *** Hinkley Point, UK. Same approach as for Offshore Wind. Strike price of 92,5 £/MWh in 2012 real prices. Lifetime of 60yrs, 91% capacity factor.



Key cost reduction levers in offshore wind

- Develop larger sites
- Install larger turbines
- Innovate and reduce costs across all components
- Reduce installation cycles
- Reduce operations & maintenance costs
- Increase supplier competition

1991 2001 2003 2010 2013 2015 2017

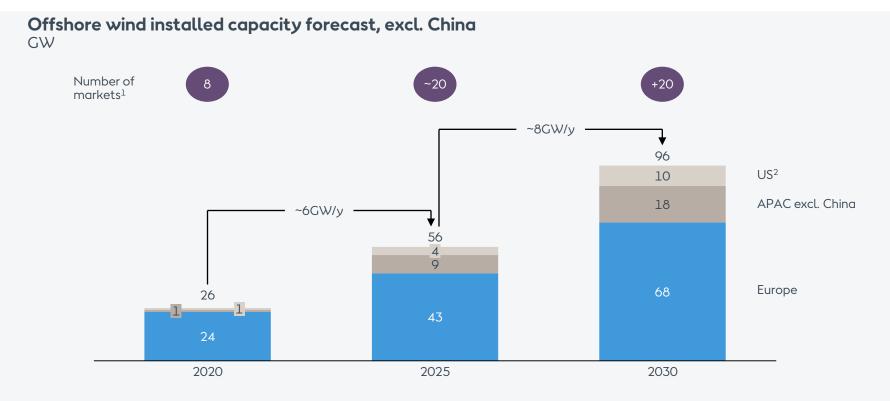
Boeing 747-800 Length 76m

164m

195m



Global growth in offshore wind will accelerate towards 2030

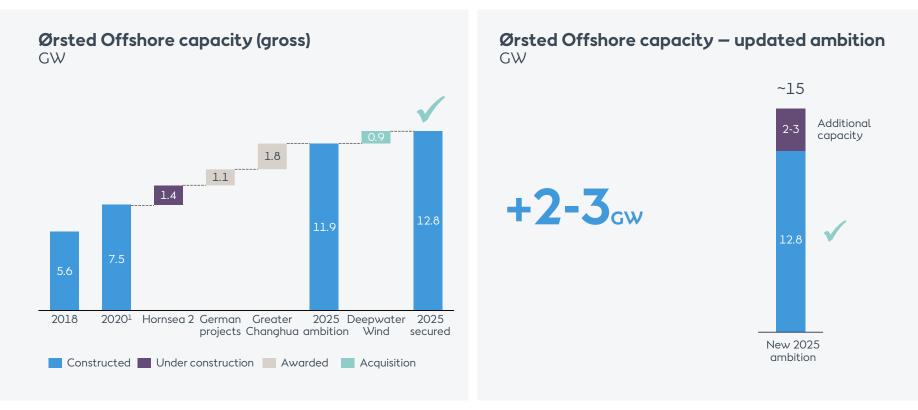


1. Number of markets with installed capacity by BNEF above 200MW with US States treated as separate markets

8 2. US includes the latest BNEF US offshore wind forecast from September 2018. This forecast is 3GW higher than H1 2018 Offshore Wind Outlook from July 2018



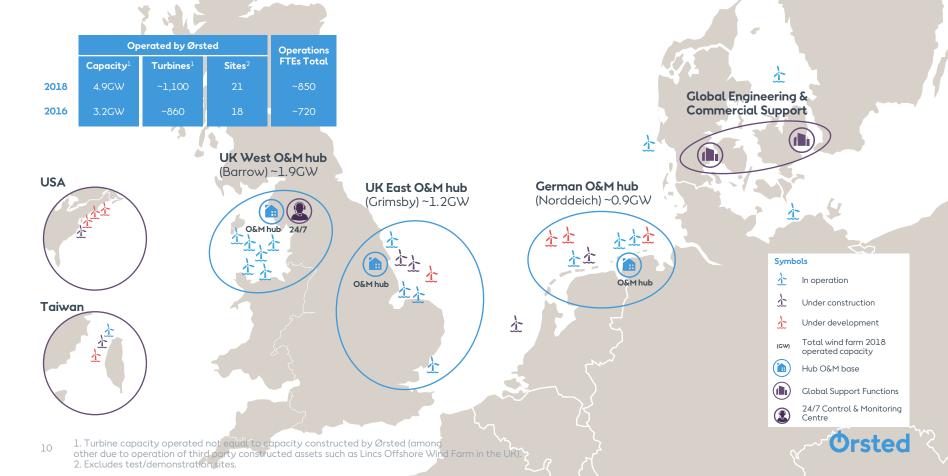
We have set a higher offshore wind ambition for 2025



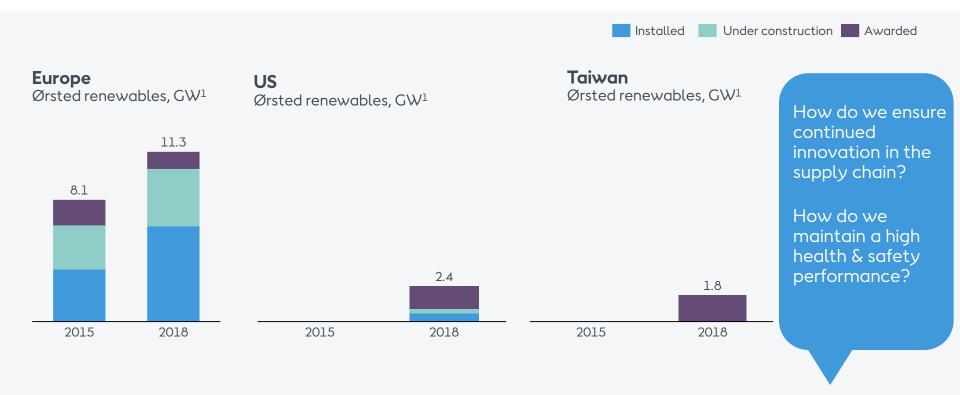


9 ¹2020 includes Borssele 1&2 capacity, COD expected in Q4 2020 / Q1 2021

Ørsted is the largest offshore wind O&M owner/operator globally



Offshore wind is globalizing – which poses new challenges for the supply chain





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