Orsted Offshore Wind: challenges and opportunities ahead 4 December 2024 Richard Crossick, Head of Public Affairs, Ørsted UK

Our footprint in the UK

- 1,400 employees
- Ørsted has already invested over £15bn in the last decade
- Ørsted plans to invest at least another £16bn in the next few years
- Completed the world's largest offshore wind farm,
 Hornsea Project Two, at 1.4GW
- Constructing what will be the next largest offshore wind farm, Homsea Project Three, at 2.9GW;.
 Homsea 4 to follow at 2.9GW.
- Our offshore wind projects are generating over 7% of all electricity demand in the UK

Activities

Storage

Offshore wind
Onshore wind

Orsted sites





Constructing 7.6GW of offshore wind in 2024

We have 7.6 GW of offshore wind and 1.6 GW of onshore renewables under construction in 2024.

Offshore









USA

South Fork Wind

Revolution Wind

Sunrise Wind

Taiwan

Greater Changhua 1&2a

Greater Changhua 2b and 4

Germany

Borkum Riffgrund 3

Gode Wind 3

UK

Hornsea 3

Onshore





USA

Old 300

Helena Energy Center

Eleven Mile

Mockingbird



Germany

Bahren West 1

St. Wendel

Amberg Sud



Ireland

Farranrory

Garreenleen

State of Play

Strong UK pipeline (fixed and floating):

• Operating: ~15 GW

Constructing/ with CfD: ~13 GW

Consented: ~10 GW

• With seabed lease: ~40/50 GW?

Recent Annual Capacity increase:

• 2022: 7 GW (5.6 GW)

• 2023: 0 GW

• 2024: 3.4 GW

Required rate to 50 GW by 2030 (last viable auction 2027): 12 GW pa



Accelerating deployment:

- (1) Capacity: driven by Allocation Rounds
- Accelerating pipeline: driven by planning reform, grid and connections
- Community acceptance: driven by community benefit / compensation

Changes must be made in flight and continue to attract investments to new projects.



Global Supply Chain will have to double or triple its capacity to meet the demand by 2030:

Current offshore supply chain capacity vs. capacity needed

Category

Current capacity

Capacity needed to meet 2030 targets



Turbines

725 units/year

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Up to **1.450** units/year (**x2**)



Monopiles

Up to 450 units/year



Up to **1.350** units/year (**x3**)



24 vessels in operation



Up to 50 vessels in operation (x2)

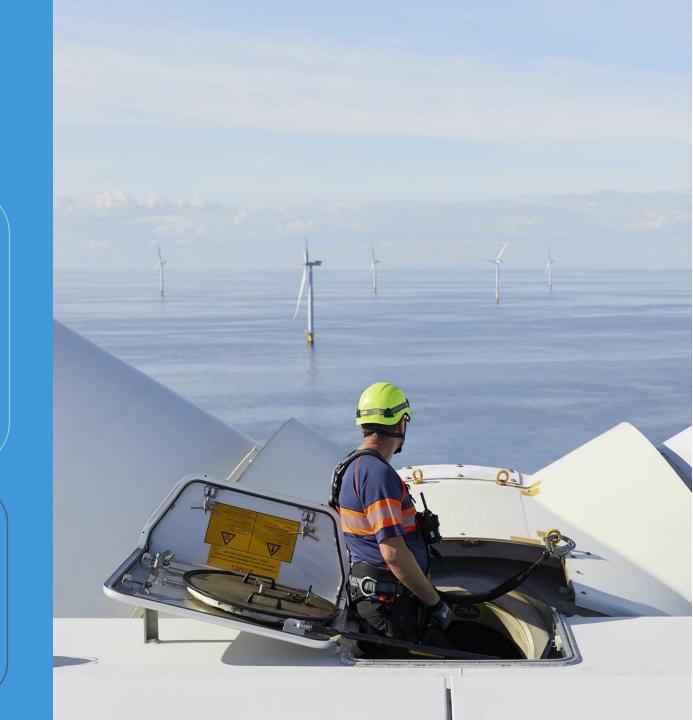
UK Government policy: growing the supply chain and job creation

Growing the Supply Chain:

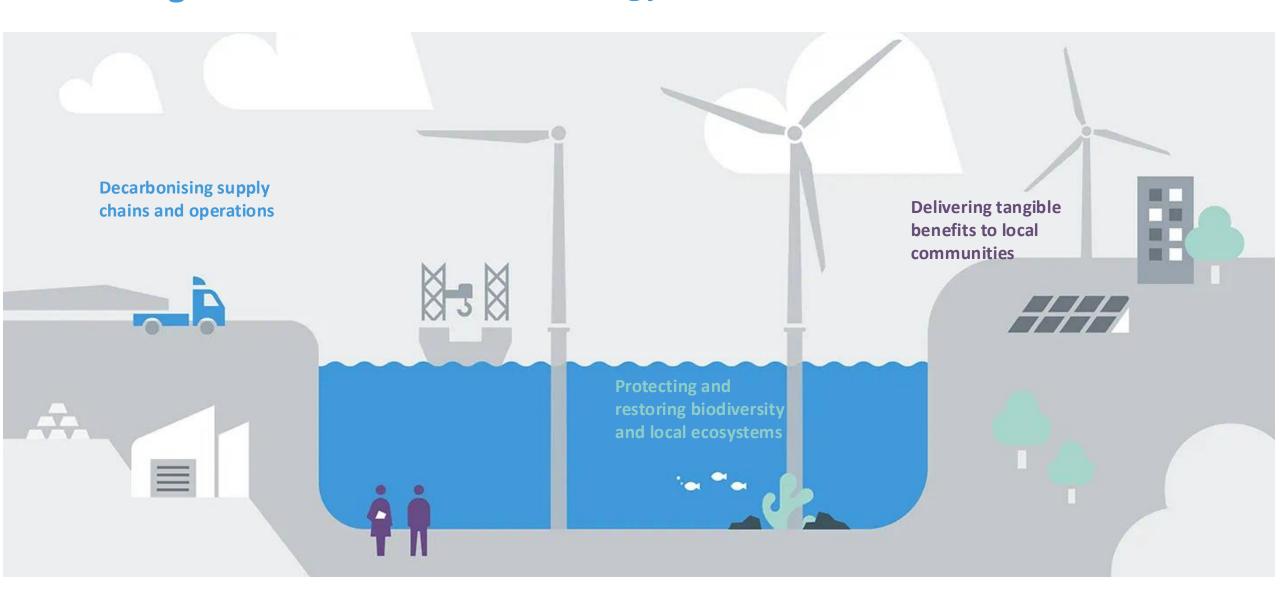
- 1 National Wealth Fund/ GB Energy
- 2 Clean Industry Bonus
- Traditional industrial strategy levers

Role of industry:

- Industrial Growth Plan (IGP)
- Helping to expand a skilled workforce



Enabling a sustainable renewable energy build-out



Orsted

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

