An Offshore Wind Overview
Ørsted Offshore Wind Power Overview

Global footprint

North America
- Boston office
- Bay State Wind
- Constitution Wind (Coastal Virginia)

Europe
- Walney Extension
- Isle of Man
- Barrow
- Burbo Bank
- Burbo Bank Ext.
- West of Duddon Sands
- Westermost Rough
- Hornsea 1
- Hornsea 2
- Hornsea 3 & 4
- Race Bank
- London Array
- Gunfleet Sands 1 & 2
- Gunfleet Sands 3
- Borssele 1 & 2
- Horns Rev 1 & 2
- Borkum Riffgrund 1
- Borkum Riffgrund 2
- Borkum Riffgrund West 1 & 2
- Gode Wind 1
- Gode Wind 2
- Gode Wind 3
- Gode Wind 4
- Gode Wind 5
- Anholt
- Middelgrunden
- Avedøre
- Vindeby
- Nysted

Asia Pacific
- Formosa 1.1
- Formosa 1.2
- Greater Changhua projects
- Taipei office

Unparalleled experience and track record

- 25+ years of experience and track record in the offshore wind power sector
- 2019 to 2018
- 3.8 GW under construction
- 14 million people with clean electricity
- ~1,100 turbines
- World’s leading operator
- 3.8 GW under construction
- ~2,300 dedicated employees
- 20 partnerships
- 24 offshore wind farms in operation
- 6 offshore wind farms under construction

- Coasts Virginia
- Taipei office

- Under construction
- In operation
- Under development
- Decommissioned after 25 years
NREL estimates that lease areas have a developable resource density of 3 MW/km²
Ørsted merged with Deepwater Wind

- Ørsted development projects
- Deepwater Wind projects in operation
- Deepwater Wind projects with revenue contracts secured/soon to be secured
- Deepwater Wind development projects
At the forefront of making the industry cost competitive

Multiple levers to drive down cost in offshore wind

1. **Scale**
   - Turbines and rotor size
   - Sites
   - Vessel size
   - Cable capacity
   - ✔

2. **Innovation**
   - Foundation design (e.g. monopiles)
   - Electrical
   - ✔

3. **Industrialisation**
   - Transition from single supply to multiple global suppliers
   - ✔

Rapid technological development
Wind turbine rotor diameter, year of commissioning

- Boeing 747, 76m
- 80 m
- 90 m
- 107 m
- 120 m
- 154 m
- 164 m
- 220 m
- 2002
- 2005
- 2007
- 2011
- 2014
- 2016
- 2021

1. In Mar. 2018 GE unveiled a 12 MW turbine. Each Haliade-X unit, will be capable of powering 16,000 homes and producing 67 GW/h per year, based on wind conditions on a typical German North Sea site.

Ørsted Offshore Wind, November 2018
The rapid cost reductions in the industry have made offshore wind power competitive relative to conventional power generation based on fossil fuels EUR/MWh 2016 prices.

Source: Bloomberg New Energy Finance (BNEF) for CCGT and Coal plants for Northwest Europe, Danish Energy Agency and BNEF for Offshore Wind.
Leading the way toward New Jersey’s clean energy future

- Establish **New Jersey as a frontrunner** in an emerging U.S. offshore wind industry
- **Utility scale** project that offers **competitive pricing** and maximizes **local economic benefits**
- **Local supply chain** investments to revitalize the **Atlantic City** region
- **Significant investments** into the local communities

**OCEAN WIND**
- 3,500 MW potential capacity
- 160,500 acre lease area
- 10 miles from Atlantic City
- 65 – 100 feet water depths
Ocean Wind: Driving Local Economic Development

+ Global clout to attract manufacturing investments that could launch a new American industry, starting here, in New Jersey

+ Typical Ørsted project creates 1,000 direct construction jobs, 100 maintenance jobs during the lifetime of the project, and many more indirectly

We bring decades of offshore wind project relationships, with track record & impact to attract supply chain.
+ Environmental stewardship is our core principle: we believe the world should run entirely on green energy

+ Seamlessly collaborated and coexisted with the fishing community and marine life for 25+ years

+ Hired a dedicated marine biologist focusing on protecting marine mammals

+ Contracting a local Fisheries Liaison Officer to work directly with the local fishing community
Thank you

Visit us at: www.oceanwind.com

Get in touch: info@oceanwind.com

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