Hornsea Project One

Project Overview

Orsted

Presentation for Ofgem OFTO
TR6 Launch Event
9 October 2018

Agenda and Hornsea Project One introduction

Agenda Agenda and HOW01 team introduction An introduction to HOW01 Ørsted's experience HOW01 project organisation HOW01 OFTO assets The investment opportunity Construction update

HOW01 OFTO Divestment Team



Duncan Clark
Programme Director
Joined Ørsted in 2012
24 yrs in power sector, inc PD WMR



Richard Bodal Hansen Head of OFTO transactions Joined Ørsted in 2012 M&A and legal background



Ebba Phillips John
Senior OFTO Transaction Manager
Joined Ørsted in 2010
Background in electricity market regulation



Hornsea Project One will be the world's largest offshore wind farm...

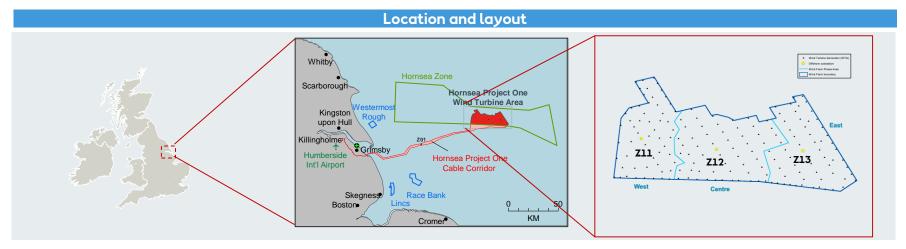


Situated in the attractive Hornsea Zone leased in Round 3, HOW01 is a record breaking project:

- Largest MW wind farm in the world
- Furthest from shore
- Largest transmission asset
- Largest M&A transaction



...built using proven technology and market leading Ørsted experience

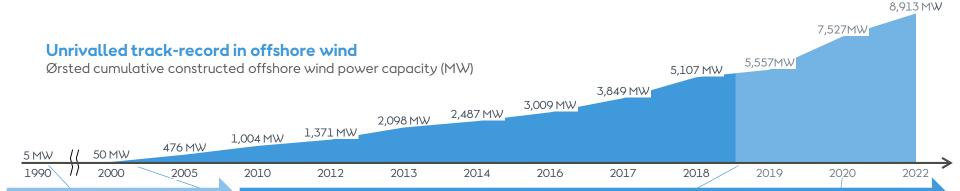


Characteristics	
Well known operating environment	V
Well known and proven technology	V
Well tested and successful construction approach	V
Well designed with efficient cost and operability	V

Parameter	Summary
Support regime	Contract for Difference
Capacity	1218 MW
Water depth	24-37m LAT
Length of export cable route	~145km offshore and ~38km onshore
Number of WTGs	174 Siemens Gamesa 7 MW



Ørsted pioneered the offshore wind industry



Vindeby

First offshore wind farm in the world



Capacity: 5 MW Nr. of turbines: 11 Distance to shore: 1.8 km

Horns Rev 1

First large scale offshore wind farm in the world



Capacity: 160 MW Nr. of turbines: 80 Distance to shore: 18 km

Walney Extension

Post-2009: Industrialised approach to planning and execution of offshore wind projects

The largest operational offshore wind farm in the world



Capacity: 659 MW Nr. of turbines: 87 Distance to shore: 19 km

Hornsea 1

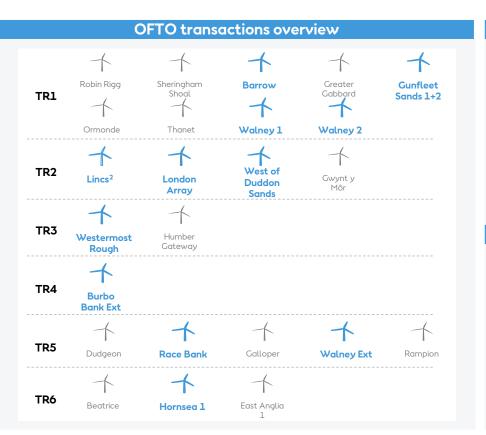
The world's largest offshore wind farm once constructed



Capacity: 1218 MW Nr. of turbines: 174 Distance to shore: 145 km



Our experience of OFTO assets







^{1.} Based on public information

^{2.} Centrica was the operating partner for Lincs construction and OFTO divestment

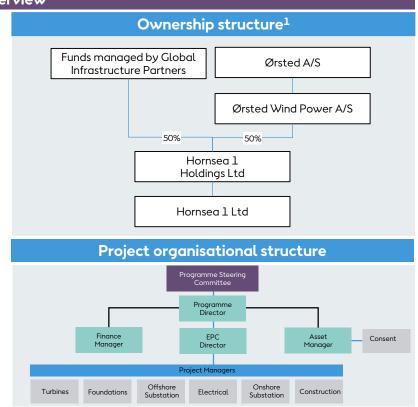
Hornsea Project One ownership and project organisation

Ownership overview

- Hornsea 1 Ltd is the **Developer** of the HOW01 wind farm, and **Vendor** for the purposes of the OFTO divestment.
- The Developer currently a wholly owned subsidiary of **Ørsted**.
- Ørsted is in the process of divesting 50% of its interest in Hornsea 1 Ltd to Global Infrastructure Partners¹
- Ørsted acquired 33% of the project from Smart Wind Ltd. in December 2011 and took full ownership in February 2015.
- The wind farm including all transmission assets is being constructed by Ørsted Wind Power A/S

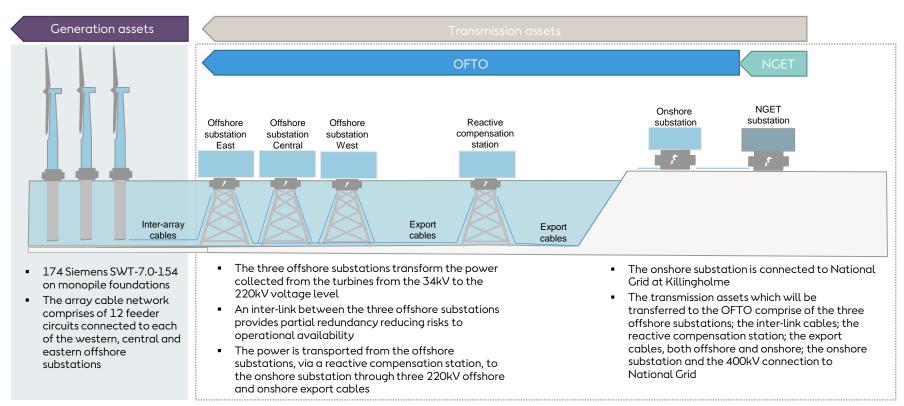
Experienced project organisation

- Ørsted has an unrivalled track-record in offshore wind with over 27 years experience, having constructed 28% of global offshore wind capacity
- Hornsea 1 leverages this organisational experience, benefiting from Ørsted's mature and industrialised approach to planning and execution of offshore projects
- The project team benefits from the significant experience gained from previous transmission asset construction and divestment processes
- Safety and environmental impact are key focus areas for the delivery of the assets





Overview of the infrastructure





Hornsea Project One: the investment opportunity

Project highlights

Highlights

- 1218MW generation capacity with transmission assets Initial Transfer Value 1396 GBPm
- All consents in place and transmission asset construction nearing completion

Project

- Favourable site conditions and well known location
- The characteristics of the site enable the project to make use of known technology
- Mature and efficient design based upon previous operational experience, resulting in highly operable and robust assets

Supply chain

Experienced supply and installation contractors procured by Ørsted

Experienced
Developer
and EPC
Manager

- Ørsted active in the offshore wind sector for more than 20 years
- Ørsted has participated in all of Ofgem's OFTO tender rounds to date
- Competencies in place to deliver the project to the highest industry standard

O&M

- Appropriate interim maintenance arrangements will be in place until asset transfer
- With a track record of operating wind farms in Europe for over 20 years, Ørsted is greatly experienced
 in managing the long term operation of windfarms and associated transmission assets
- Ørsted plans to offer certain through-life service agreements at the ITT stage

Transaction

- Project specific transfer and interface agreements based on Ofgem guidelines and market developments
- Transfer of OFTO related contracts including benefit of supplier warranties
- Division of responsibilities pre- and post- asset transfer
- Credit support to be procured by the Developer





An update on the construction progress

Hornsea Project One installation and construction ¹ 2010-2013 3Q 2013 1Q 2016 4Q 2017 4Q 2018 4Q 2019 1Q 2016 1Q 2019 Site surveys and Application for Onshore Final Investment Offshore Energisation of WTG² WTG Development Decision geoscience transmission installation commissionina construction construction Consent Order campaigns system start finish start start 2015 2013 2014 2016 2017 2018 2019 2020 September 2013 May 2014 December 2014 March 2017 40 2018 Grid connection Investment Development Crown Estate NGET ION B agreements with Contracts (CfD) Consent Order Leases sianed Certificate authorisina National Grid aranted by first power export signed

Onshore progress

Onshore Substation

- Onshore substation civil works complete and taken over from contractor
- All HV components delivered and installed
- Commissioning well advanced
- On target for energization Q4 2018

Onshore Export Cables

• All cables installed and joints complete

Offshore progress

Offshore Substations

- Offshore installation complete for Z01, Z11, Z12, Z13
- Commissioning at advanced stage

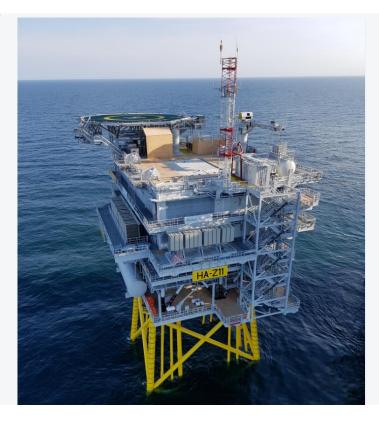
Offshore Export Cables

- Central circuit cable and interlinks installed
- Installation begun for western and eastern circuit cables, completion expected Q4 2018 and Q2 2019 respectively



Construction photos



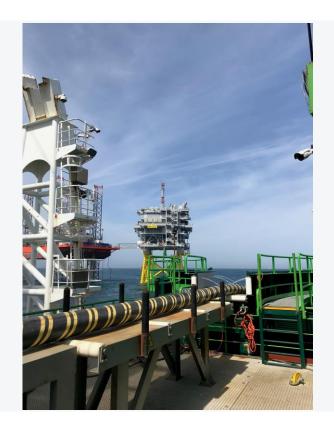






Construction photos









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