WOW03+04 Public Information

# WALNEY EXTENSION

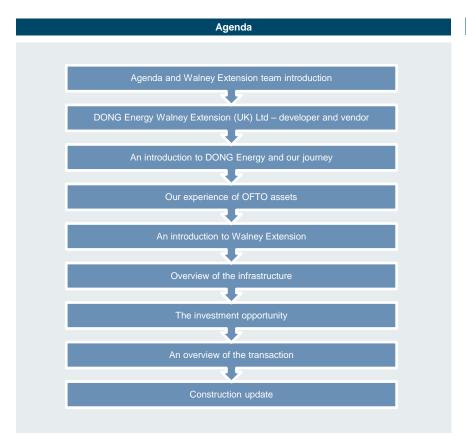
Project Overview



**Presentation for Ofgem OFTO TR5 Launch Event** 30<sup>th</sup> September 2016



## Agenda and Walney Extension team introduction





#### Walney Extension OFTO Divestment Team

Name: Andrew Cotterell Role: Programme Director (Walney Extension) Background:

- Joined DONG Energy in 2012
- Responsible for execution, asset and financial management of Walney Extension
- Selected experience includes: Programme Director of Borkum Riffgrund 1



Name: Richard Bodal-Hansen Role: Head of OFTO Transactions

- Joined DONG Energy in 2012
- Responsible for OFTO transactions
- Selected experience includes: M&A management, DONG Energy M&A legal counsel



Name: Ebba Phillips John Role: Senior OFTO Transaction Manager

Background:

- Joined DONG Energy in 2010
- Responsible for OFTO Transactions
- Selected experience includes: Senior Regulatory Affairs Advisor



## DONG Energy Walney Extension (UK) Ltd – developer and vendor

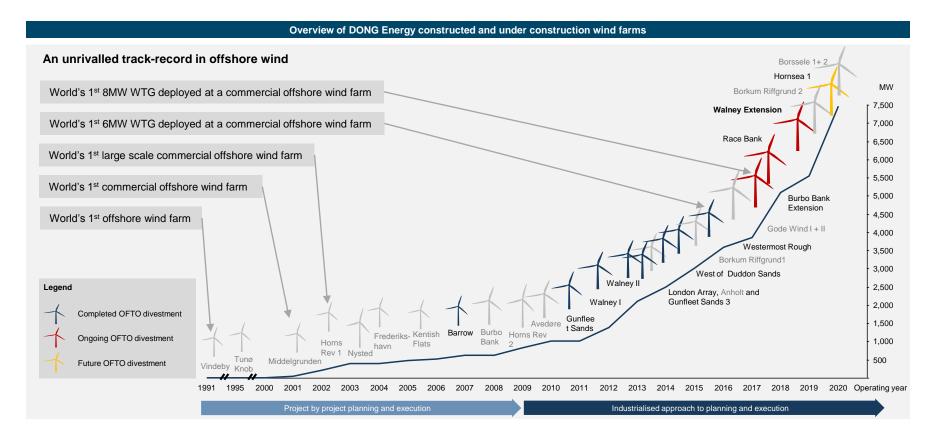
#### **Ownership overview** The Developer and participating company in the WOW03 + 04 Offshore Wind Farm is DONG Energy Walney Extension (UK) Ltd DONG Energy Wind Power A/S The Developer is a directly owned subsidiary of DONG Energy Wind Power A/S DONG Energy were granted rights from The Crown Estate and developed the 100% project between 2010 and its financial investment decision (FID) in October 2015 DONG Energy Walney Extension (UK) Ltd The wind farm including all transmission assets will be constructed by DONG **Energy Wind Power A/S** Experienced project organisation Project organisational structure Programme DONG Energy has an unrivalled track-record in offshore wind with over 20 years Steering Committe experience, having constructed 26% of global offshore wind capacity Programme Director

- Walney Extension leverages this organisational experience, benefiting from DONG Energy's mature and industrialised approach to planning and execution of offshore projects
- The project team profits 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

Finance EPC Asset Manage Manager Director **Project Managers** Turbines Offshore Onshore WOW03 Foundations Electrical Construction Consent Substation Substation WOW04

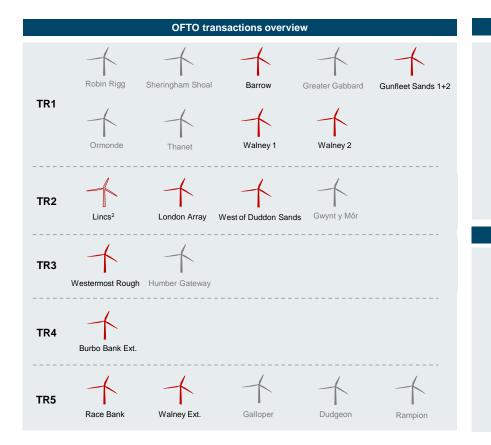


### An introduction to DONG Energy and our journey





#### **Our experience of OFTO assets**





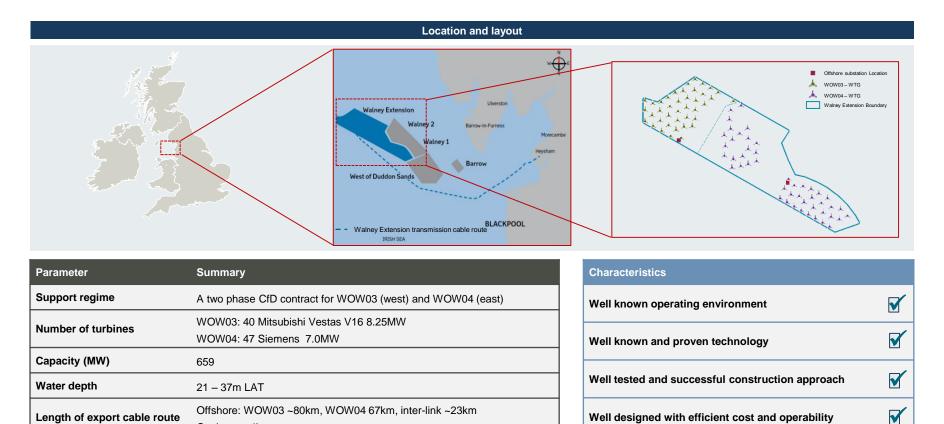




Figures based on Initial Transfer Value, data from Ofgem Website (September 2016)
 Centrica was the operating partner for Lincs construction and OFTO divestment

#### An introduction to Walney Extension

Onshore: ~4km

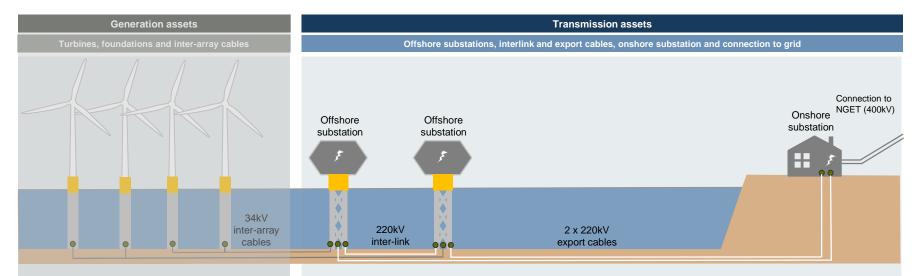


Well designed with efficient cost and operability



Length of export cable route

#### **Overview of the infrastructure**



- 40 MHI Vestas 8.25MW-164 and 47 Siemens SWT-7MW-154 on 87 traditional steel monopile foundations
- The array cable network comprises of 10 feeder circuits connected to the WOW03 offshore substation and 10 feeder circuits connected to the WOW04 offshore substation
- The two offshore substations transform the power collected from the turbines from the 34kV to the 220kV voltage level
- An inter-link between the two offshore substations provides partial redundancy reducing risks to operational availability
- The power is transported from the offshore substations to the onshore substation through two 220kV offshore and onshore export cables
- The onshore substation is connected to National Grid at Middleton near Heysham
- The transmission assets which will be transferred to the OFTO comprise of the two offshore substations, the inter-link cable, the export cables, both offshore and onshore, the onshore substation and the 400kV connection to National Grid



## The investment opportunity

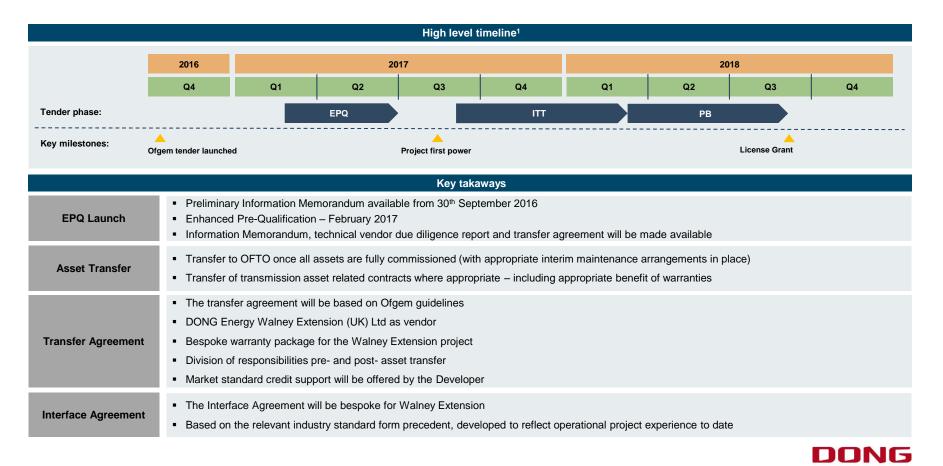
#### Project highlights

Highlights	<ul> <li>The project will operate under the UK CfD framework</li> <li>659MW generation capacity with transmission assets Initial Transfer Value approx. 517 GBPm</li> <li>All consents in place and transmission asset construction underway</li> <li>Walney Extension is anticipated to be DONG Energy's eleventh transmission asset divestment</li> </ul>	
Project	<ul> <li>Favourable site conditions and well known operating environment for OFTOs</li> <li>The characteristics of the site enable the project to make use of known technology</li> <li>Mature and efficient design developed based upon previous operational experience, resulting in highly operable and robust assets</li> </ul>	
Supply chain	<ul> <li>Experienced supply and installation contractors, strategically appointed through competitive tenders</li> <li>Tendered utilising DONG Energy's product lines to contribute in the holistic goal to reduce the cost of electricity</li> </ul>	
Experienced Developer and EPC Manager	<ul> <li>DONG Energy active in the offshore wind sector for more than 20 years</li> <li>DONG Energy has participated in all of Ofgem's OFTO tender rounds to date</li> <li>Highly experienced project developer bringing significant expertise to the project</li> <li>Transaction and operational competences in place to deliver the project to the highest industry standard</li> </ul>	
O&M	<ul> <li>Appropriate interim maintenance arrangements will be in place until asset transfer</li> <li>DONG Energy will offer an emergency response service for export cables with full access to a broad base of in-house knowledge, expertise and resources</li> <li>DONG Energy is willing to enter dialogue regarding certain routine O&amp;M services but the focus is on providing emergency response services</li> </ul>	

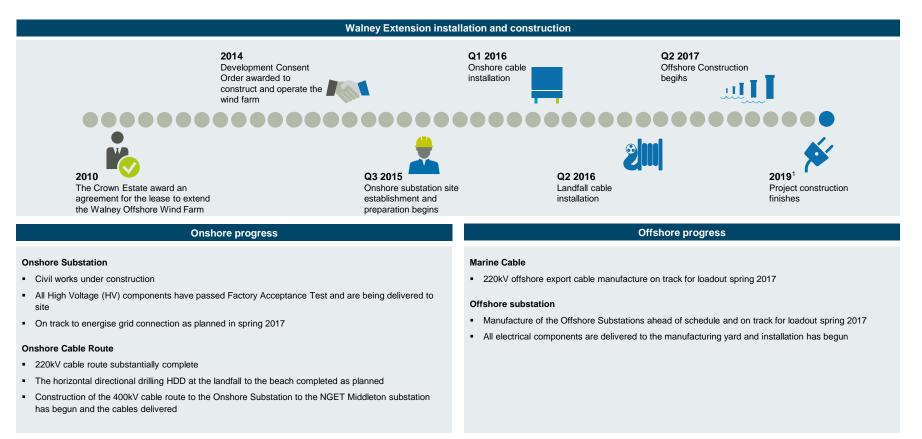


energy

#### An overview of the transaction



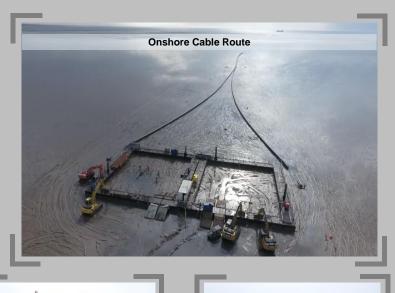
#### An update on construction progress



























#### DISCLAIMER

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