

DUDGEON Offshore Wind Farm

Operated by Statoil







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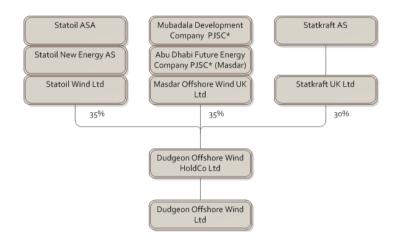






Dudgeon Offshore Wind Ltd

- Dudgeon Offshore Wind Ltd (Dudgeon) is an indirectly owned subsidiary of Statoil, Mubadala and Statkraft.
- Dudgeon shareholders have significant financial and operational strength and experiences within the energy industry inclusive offshore wind.
- Masdar actively advances the development and commercialisation of clean technologies around the world. With nearly 1.5 GW of clean power contributing to the grid or under development in the United Arab Emirates and internationally, it is delivering and operating some of the world's most sophisticated and largest renewable energy projects.
- **Statkraft** is a leading company in hydropower internationally with 18.5 GW of installed capacity (pro-rata) and Europe's largest generator of renewable energy. The group produces hydropower, wind power, gas-fired power and district heating and is a global player in energy operations.
- Statoil is an international energy company present in more than 30 countries around the world. It is fully integrated with capability for upstream oil & gas and pipeline operations with increasing investment in renewable energy generation.









Statoil is the manager of Dudgeon Offshore Wind Ltd

 Statoil is the manager of the project and responsible for the development, construction and operation of the wind farm

- Highly experienced project team drawing on competence from all shareholders
- Well proven Statoil project model
- Strong HSE focus and performance







Mariner topside



Aasta Hansteen



Johan Sverdrup

Utgard



Dudgeon



Oseberg Vfl. II







Peregrino II



Byrdina



Shaping the future of energy

Competitive at all times

Transforming the oil and gas industry

Providing energy for a low carbon future



Powering more than 1 million homes

Playing to our strengths

- Complex projects
- Marine operations
- O&M & HSE ability
- eading floating tech.



Offshore wind projects delivering up to 1100 MW

Additional 4800 MW consented / ~5 mill homes



Attractive market

- Attractive risk/return
- Predictable revenue
- **OECD** countries
- High entry barriers





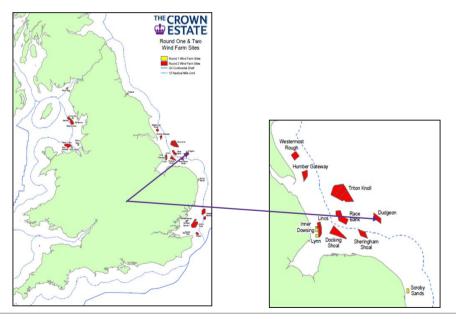
^{*} All capacity figures on 100% basis



Hywind

Dudgeon Offshore Wind Farm

Wind farm site area - 55 km2 402 MW - 67 x 6MW Siemens WTGs



≻ FID	1 July	2014
➤ Limited Recourse Project Financing	May	2016
> Transmission Assets completed	December	2016
> Target start electricity generated	January	2017
> OFTO ITT commence	Q1	2017
> Target Project completion	Q4	2017
> OFTO transaction completed	Q2	2018











Dudgeon construction update- Transmission assets

Offshore substation (STDL)

- · Jacket installed in May
- · Export and IA cables pulled -in
- Topside installed 5 August
- Jack-up for hook-up and commissioning from 1 September

Onshore substation (STDL)

- Finalizing installation work
- · Testing and completion ongoing
- 400 kV energisation 22 september

Onshore cable (Carillion)

- HV test completed mid September
- · Transitionbay connection late September
- Reinstatement work ongoing

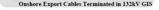


















Dudgeon construction update - Marine Operations

Export and inter array cables (ABB & VBMS)

- Subsea export cables installed in March-May
- Cable repair completed in August
- · Inter array cable installation completed
- · Cable terminations and trenching ongoing

WTG foundations (67) (SIF & SHL)

- Installation commenced in March
- Installation completed end July

WTG installation to start 2 January (SWP & A2Sea)

- Loadout from Hull
- · First power expected mid/late January



Splicing of export cable









Dudgeon O&M set up

- Wind farm site is 46 n.m. from Great Yarmouth
- Necton is about 1 hr drive from Great Yarmouth





SOV Esvagt Njord



CTV MPI Snowball

- Statoil is the O&M manager for Dudgeon
- Office, onshore base and control room are located in Great Yarmouth
- Service Operations Vessel (SOV)
 - Capacity for up to 40 technicians
 - 2 weeks on- 2 weeks off
 - 12 hrs staggered shifts per day
- One Crew Transfer Vessel (CTV) to support the SOV in the field and operate as "ferry" between the field and the base
- Statoil will take over responsibility for the WTG O&M from Siemens after 2 years









OFTO Asset Maintenance Strategy

- Maintenance strategy:
 - Ensure that all requirements are met to keep the warranties intact
 - At the end of the warranty period develop from Scheduled to more Reliability Centred Maintenance (RCM)
- Maintenance Contract for the Offshore and Onshore Substations are on tender
- Contract has been issued for crane maintenance and statutory inspections
- Tenders under preparation for structure inspection and maintenance, cable and scour surveys, and cleaning









Dudgeon offers the OFTO an O&M services contract

- A comprehensive ("all inclusive") O&M services agreement for the transmission assets
 - preventive and corrective maintenance, major repairs and modifications, 24/7 control room services
 - A commercially very competitive offer on 20 years term
 - Commercial terms to be detailed in the data room

Justification:

- Dudgeon the best incentivised to obtain high availability
- Will give lowest expected O&M costs for Dudgeon and for the society – will also capture synergies with wind farm O&M
- Will minimise interface issues and ease coordination of planning
- Will reduce O&M risk for the OFTO

