



▶ The coast off Cromer in North Norfolk.

Dudgeon makes strong progress under new ownership

Statoil and Statkraft acquired the Dudgeon Offshore Wind Farm project in October 2012 through the acquisition of all the shares in Dudgeon Offshore Wind Limited, a subsidiary of the UK energy company Warwick Energy Limited.

Following a successful partnership in developing the Sheringham Shoal Offshore Wind Farm off the coast of North Norfolk, Statoil and Statkraft will now work together to develop the Dudgeon Offshore Wind Farm. An experienced project team, managed by Statoil, has been established to bring the project towards a final investment decision, and details of some of the members of this team are on the back page of this newsletter.

The Round 2 licence from The Crown Estate for the development of the Dudgeon Offshore Wind Farm was granted in 2003, but it took until late 2012 for all the construction consents to be finally put in place.

Both Statoil and Statkraft believe this project could further strengthen their positions in

the Norfolk region, benefitting from the positive and highly constructive dialogue already established with UK authorities, local communities and suppliers.

Halfdan Brustad, Chairman of Dudgeon Offshore Wind Limited said: "There is a massive amount of work involved in the detailed planning of this project to be undertaken over the next two years. We need to be in a position to make the Final Investment Decision (FID) in late 2014 to enable construction work to start in early 2015. Many hundreds of jobs are likely to be created during the construction phase."

Once in operation, the Dudgeon Offshore Wind Farm will provide sufficient 'green' electricity to power more than 250,000 UK homes every year ■

DUDGEON Offshore Wind Farm

Spring/Summer 2013



Energy is central to our economic recovery. I am delighted that these major global industry players have shown the confidence to invest in the UK's world-leading offshore wind market.

This inward investment by Statoil and Statkraft furthers our energy relationship with Norway, will create hundreds of jobs, and enhance UK energy security.



John Hayes, former UK Minister of State for Energy commenting on the acquisition of the Dudgeon Offshore Wind Farm project by Statoil and Statkraft in October 2012.



▶ The Dudgeon Offshore Wind Farm will be located 20 miles off the coast of Cromer in North Norfolk.

Contents

- Page 2 ▶ Planning for construction
- ▶ Offshore surveys and fishermen
- Page 3 ▶ On land - taking the power to the National Grid
- ▶ Surveys to protect wildlife and the environment
- ▶ Community engagement
- Page 4 ▶ Meet the Dudgeon team
- ▶ Dudgeon Community Support Fund
- ▶ About the Owners
- ▶ Contact details



Planning for the construction of the Dudgeon Offshore Wind Farm

Before the Final Investment Decision (FID) can be made in late 2014, technical, mechanical and electrical engineering and planning work, including surveys, will be undertaken to define and detail the infrastructure of the wind farm, both at sea and on land. Although there are many issues still to be resolved, at this stage in the process the construction of the wind farm is being planned in line with the basic specification set out in this statistics overview panel.

Dudgeon Offshore Wind Farm - statistics overview	
Award	UK Round 2 licence
Area	35km ²
Water depth	18 - 25 m
Average wind speed	9.78 m/s
Mean waves, Hs	1.1 m
Installed capacity	350 - 400 MW
Offshore export cable length	38 km (24 miles)
Onshore cable length	48 km (30 miles)
Export Grid	132 kV
Turbine	5 - 8 MW
Foundations	Jackets or monopiles

Currently, the indicative timetable for construction activities is as follows:

- 2014/15: Onshore cable installation; onshore substation construction
- 2016: Offshore installation of wind turbine foundations, substation and all seabed cables
- 2017: Offshore wind turbine installation commences; first power to the National Grid



▶ Offshore wind turbines at the Sheringham Shoal Offshore Wind Farm (image taken by CHPV and supplied by Scira Offshore Energy Limited).

Offshore surveys and the fishermen

Seabed surveys are part of the wind farm construction planning process, and they are taking place during the Spring and Summer months of 2013. They include geophysical surveys of the wind farm site, as well as a subsea and seabed survey along the offshore cable route. These initial surveys commenced in April 2013 and are expected to take between 4 and 5 months to complete, subject to weather conditions.

North Norfolk has a vibrant fishing industry, mainly centred on crabs, lobsters and whelks, in the waters in which these surveys are being undertaken. The Dudgeon Offshore Wind Farm stakeholder management team has agreed a level of disruption payments to be made to those fishermen whose livelihoods will be affected by these surveys, and by the later construction activity



▶ North Norfolk has a vibrant fishing industry.

On land – taking the power to the National Grid



▶ Weybourne Hope – landfall for the offshore cable.

In July 2012 Dudgeon Offshore Wind received the permission from Department for Energy and Climate Change to construct and operate a wind farm of up to 168 turbines and an installed capacity of up to 560 MW. However, the ultimate size of the Dudgeon Offshore Wind Farm has yet to be finalised. The existing plans are to have an installed capacity of 350 - 400 MW and between 60 and 80 turbines, which is sufficient to generate enough electricity to power more than 250,000 UK homes each year.

In order to reach these homes, this electricity has to be brought to shore and transmitted into the National Grid network. This will be achieved by the installation of 24 miles of offshore cable laid on the seabed from the wind farm site to Weybourne Hope on the coast of North Norfolk, some 3 miles west of the seaside town of Sheringham.

The electricity will then be carried along an onshore cable, which will be buried from the landfall site to Necton, near Swaffham in the Breckland district of Norfolk, where a new substation will be constructed to facilitate a connection to the National Grid network.

The onshore cable route will extend for 30

miles through the Norfolk countryside, and agreement needs to be reached with 44 individual landowners in this respect. Detailed discussions with the landowners are currently being undertaken, with the Dudgeon Project Team wishing to minimise agricultural disruption during onshore cable installation

Surveys to protect wildlife and the environment

There are a number of different surveys which will need to be completed before onshore construction activity can start. The initial 'walkover' surveys commenced during the Spring 2013 and include great crested newts and other protected species, as well as the mapping of trees, hedges, public rights of way, points of access and topographical features.



▶ The great crested newt – a protected species.

A stage 1 archaeology survey will also be undertaken; this is a geophysical survey involving the use of a hand held metal detector and will determine the need for any future archaeological trial trenching works.

A technical consultant will undertake an initial survey to gather facts and data for future detailed engineering surveys relating to the design of the soils management plan which will ensure that the land is returned to its existing condition on completion of onshore construction.

Wherever possible, these surveys will be run in parallel and will take into account seasonal access constraints.

Once completed these surveys will inform the Dudgeon Project Team of the need for any Wildlife Licences or mitigation measures which will have to be incorporated into the construction methodology



▶ Drop-in Day for landowners.

Consulting the Community

During the development of the Dudgeon Offshore Wind Farm, the Project Team will maintain an on-going dialogue with the local community, providing regular updates of progress and plans. Since Statoil and Statkraft acquired Dudgeon Offshore Wind Limited, meetings have taken place with Little Dunham, Little Fransham and Necton Parish Councils, North Norfolk and Breckland District Councils, a number of landowners along the onshore cable route and the North Norfolk FLAG (Fisheries Local Action Group)

Meet the Dudgeon team

The team to manage and develop the Dudgeon Offshore Wind Farm project has recently been strengthened with the following appointments.



Halfdan Brustad *Chairman - Dudgeon Offshore Wind Limited*
halbr@statoil.com

Halfdan has overall responsibility for the Dudgeon project. He was Head of Wind Projects for the Sheringham Shoal Wind Farm, and has 30 years international experience in onshore and offshore oil and gas projects.



Olav Bernt Haga *Facility Manager*
olhag@statoil.com

Olav Bernt Haga is the Facility Manager. He has the responsibility for the planning and construction of the project. He has extensive experience in large construction projects within the oil and gas business.



Bjørn Ivar Bergemo *Asset Manager*
bjib@statoil.com

Bjørn Ivar is responsible for managing all commercial, technical and operational activities. He has recently been the Commercial Manager for the Forewind project, the biggest offshore wind project in the UK.



Rune Rønvik *Operations Manager*
ruronv@statoil.com

Rune will be creating the infrastructure that will run the Dudgeon Offshore Wind Farm from when it first starts generating electricity. From 2008, Statoil's Rune was the Project Director for the Sheringham Shoal Offshore Wind Farm.



Sharn Ward *Consents Manager*
sharn.ward@statkraft.com

Sharn is responsible for ensuring full compliance with the statutory requirements and planning conditions associated with the construction of a wind farm. She works for Statkraft, and was involved in the Dogger Bank offshore wind project.



Kari-Hege Mørk *Stakeholder Manager*
kahm@statoil.com

Kari Hege Mørk has worked for Statoil for 7 years. She has wide experience in stakeholder management and community engagement, and undertook a similar role for the Sheringham Shoal Offshore Wind Farm project.

Dudgeon Community Support Fund

Prior its acquisition by Statoil and Statkraft, Dudgeon Offshore Wind Limited announced that it would set up a Community Support Fund to help community initiatives around the substation and along the onshore cable route and, if appropriate, elsewhere in Norfolk. Confirming that the Fund will receive £100,000 per annum once the wind farm becomes operational, Dudgeon Chairman Halfdan Brustad said:



The details of the Community Support Fund are yet to be finalised, but I hope that education and business support initiatives in Breckland and North Norfolk will be able to benefit from it.



Stop Press...

The specialist website company **TrickyWeb** based in Wells-next-the-Sea, North Norfolk has been awarded the contract to build and maintain the new Dudgeon Offshore Wind Farm website at www.dudgeonoffshorewind.co.uk

About the Owners

Dudgeon Offshore Wind Limited, which holds the licences and consents to enable it to construct the Dudgeon Offshore Wind Farm, is now owned by two Norwegian companies, Statoil (70%) and Statkraft (30%).

Statoil is an integrated technology based international energy company, primarily focused on upstream oil and gas business. It has more than 30 years experience from

its work on the continental shelf, pioneering complex offshore projects under the toughest conditions.

The company's culture is founded on strong values and high ethical standards. It aims to deliver long term growth, continuing to develop technologies and manage projects that will meet the world's energy and climate change challenges in a sustainable way. Statoil is listed on the NYSE and the Oslo Stock Exchange.

Statkraft is Europe's largest generator of renewable energy and is the leading power

company in Norway. The company owns, produces and develops hydropower, wind power, gas power and district heating. Statkraft is a major player in European power trading and has 3600 employees in more than 20 countries.

Statkraft has been active in the UK since 2003. The company develops, owns and operates renewable power production facilities and is also involved in the trading and origination of power from Statkraft's own projects and those of third parties. Statkraft operates hydropower plants, onshore and offshore wind farms across the UK ■

Contact details and more information:

Dudgeon Offshore Wind Limited
One Kingdom Street
London W2 6BD

0047 9520 9191
info@dudgeonoffshorewind.co.uk
www.dudgeonoffshorewind.co.uk

