

Fisheries Update 3

Fisheries feedback helps shape Dogger Bank Teesside A & B application

Feedback from meetings held with fisheries associations as part of Forewind's final stage of pre-application consultation for Dogger Bank Teesside A & B will help shape the application which is on track to be submitted to the Planning Inspectorate by the spring.

Forewind representatives held meetings with relevant local fisheries organisations whose members are likely to be impacted by the development proposals including those from Hartlepool, Redcar and the Tees Bay area. They also met with the national fisheries associations from Denmark (Danmarks Fiskeriforening), Norway (Fiskebåt), and the Netherlands (VisNed), as well as the UK (National Federation of Fishermen's Organisations).

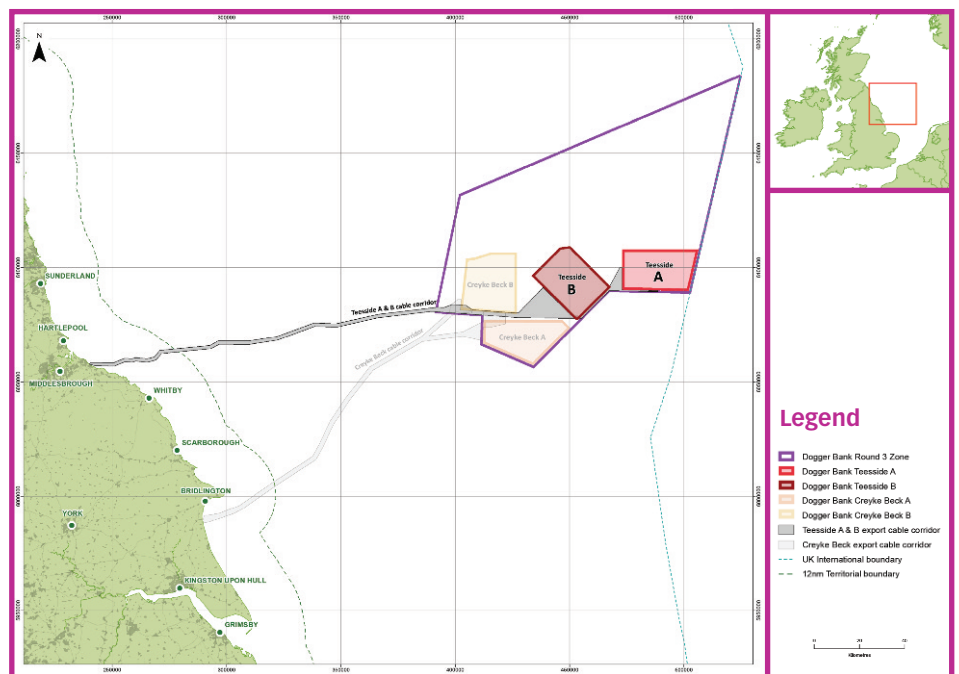
The consultation for the proposed 2.4 gigawatt (GW) development ended on 20 December last year and as well as feedback from meetings, it provided valuable information and opinions from individual fishermen, and from other fishing-related organisations such as the North Sea Regional Advisory Council (NSRAC) and Marine Management Organisation (MMO).

Forewind's Head of Offshore Development, Gareth Lewis said that all the responses will be reviewed and considered, before being incorporated into the final application documents where feasible. This includes the addition of higher-resolution or more detailed data where possible.

While many of the comments will be covered by amendments to the relevant Commercial Fisheries section (Chapter 15) in the final Environmental Statement, there were some issues common to a number of fisheries-related consultees. These included:

Electric and magnetic fields

Similar concerns about the effects of



electric and magnetic fields (EMFs) on marine life were raised for Dogger Bank Teesside A & B as for Forewind's first phase of development, Dogger Bank Creyke Beck. Forewind addresses the issue in the Fish and Shellfish Ecology section (Chapter 13) and a factsheet summarising this issue has also been prepared and is available for download at www.forewind.co.uk.

The cables proposed for the Dogger Bank projects would be insulated with metallic screens and either buried or protected, significantly reducing EMF emissions. The proposed high voltage direct current export cables are likely to be bundled so would emit a very low level of magnetic field, well within industry guidelines.

Offshore cable burial

Wherever conditions are appropriate, offshore cables will be buried to a suitable

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Issue highlights

This is the third edition of Fisheries Update – Forewind's newsletter for the commercial fishing industry – and its key focus is on the feedback from second and final phase of pre-application consultation for the proposed Dogger Bank Teesside A&B offshore wind development.

Further editions will be produced to coincide with milestone dates in the development and consenting calendar. If you would like to receive copies electronically, please email your request and contact details to info@forewind.co.uk.

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depth below the seabed. Where conditions are not suitable, cables will be protected, however the type of protection has not been determined and this will be finalised in discussion with relevant fisheries stakeholders. It is recognised that some types of protection such as concrete mattresses, are not preferred due to risks of snagging to fishing gear. Forewind would welcome further feedback from the fishing community on this topic.

Co-existence on Dogger Bank

A number of groups expressed a keen desire to work towards achieving mutual co-existence on Dogger Bank. Forewind will continue to consult with relevant fisheries representatives to develop an agreed co-existence plan.

Vessel Monitoring System (VMS) data

More than one fisheries group expressed concern that data provided via the Vessel Monitoring System (VMS) was not the most recent nor fully representative of the actual fishing effort in certain areas. Forewind will liaise with those groups concerned to update the data and ensure an accurate representation the relevant fishing grounds is included in the final application documents.

Turbine size and layout

A common theme for the offshore fishermen is the desire for fewer but larger turbines, which has been noted and included in the application documentation. Also curved arrays, which were originally part of the Forewind proposal, have now been removed in recognition of the fact they would be more difficult to navigate and increase risks associated with trawling.

Once the Planning Inspectorate has accepted the application, all the documents will be available to download online and to view at local libraries. The Planning Inspectorate has 28 days to validate and accept the application, then Forewind anticipates it will take up to 15 months, until late 2015, to examine and determine the consent.

Consultation with fishermen, which has included meetings, workshops and newsletters, has been key during the pre-application process and will continue throughout the examination phase to ensure as many issues are addressed prior to construction as feasible.



Revision of Dogger Bank Zone capacity

Forewind, in agreement with The Crown Estate, has revised its target for the total capacity of installed wind energy projects in the Dogger Bank Zone from 9 gigawatts (GW) to 7.2 GW.

The revision has been made following more than four years of offshore and onshore surveys and assessments, which have concluded that the focus should be on those projects which are most likely to achieve a positive financial investment decision at this time.

Forewind had intended to develop up to eight offshore wind energy projects however this announcement means the organisation will now proceed with six 1.2 GW projects.

The revised capacity better aligns plans for the Zone with the UK government's aspirations for offshore wind deployment given its current target of between 8 and 15 GW of energy projects by 2020.

General Manager Lee Clarke said that Forewind still has 7.2 GW of capacity planned which is a huge undertaking even without the final two proposed projects.

Dogger Bank Creyke Beck, comprising two 1.2 GW projects, is about to enter



The agreed target capacity for the Dogger Bank Zone has been revised.

the examination phase with the Planning Inspectorate and the application for Dogger Bank Teesside A&B, a further two 1.2 GW projects, is on track to be submitted by the spring. The application for Dogger Bank Teesside A & B will incorporate the revised ambitions.

"Even just these first four projects represent more potential capacity than all the wind farms now operating in UK waters," he said.

Forewind's business plan also includes the development of the 2.4 GW Dogger Bank Teesside C & D with a timescale for the submission of this application subject to discussions with key stakeholders.

Updated liaison guidance online

A collaborative effort between the offshore renewable energy sector and the fisheries industry has resulted in an updated and more comprehensive guidance document detailing an agreed best practice approach to effective liaison and cooperation between the two.

Over the past year, the Fishing Liaison with Offshore Wind and Wet Renewables Group (FLOWW), which includes representatives from offshore wind developers, The Crown Estate, fisheries associations and industry body Renewable UK, has revised the guidelines aimed at ensuring more effective communication at all stages in the development and operation of offshore renewable energy installations.

The FLOWW Best Practice Guidance for Offshore Renewables Developments: Recommendations for Fisheries Liaison, were first published in 2008 so the revised version has been produced in recognition of how the offshore renewables industry has evolved and grown over the past six years.

The guidance is intended for use by offshore renewable energy developers and the commercial fishing industry. It draws on the extensive experience gained through the development of the first three offshore wind leasing rounds as well as the emerging wave and tidal sector.

The document is now available for download on Forewind's website: www.forewind.co.uk



Dogger Bank Creyke Beck is a 2.4 GW offshore wind development of two separate 1.2 GW wind farms, each with up to 200 turbines. It will comprise two new converter stations near to the grid connection at the National Grid's existing Creyke Beck substation.

Dogger Bank Creyke Beck enters examination phase

Forewind's proposed Dogger Bank Creyke Beck 2.4 gigawatt (GW) offshore wind development has now entered its six-month examination phase with the Planning Inspectorate.

The 25-volume application was submitted in August 2013 and accepted for examination the following month. Interested parties were then given a six-week period to register their representation with the Planning Inspectorate and ensure their involvement in the examination phase along with statutory consultees.

A total of 57 relevant representations were submitted for the development, including a number of fisheries organisations. Those who submitted relevant representations will now be included in the process to fully examine the development consent order application content and project details.

The preliminary meeting to discuss the procedures that will be involved in the examination of the application was held in Hull on February 18 and the outcome from that meeting is due to be published on the

National Infrastructure Planning Portal along with the timetable for the examination – <http://infrastructure.planningportal.gov.uk/projects/yorkshire-and-the-humber/dogger-bank-creyke-beck/>

The timetable will include deadlines both for when detailed written representations are due and for comments on others' relevant representations. It will also set out the dates for hearings to look at specific technical issues and details of an open floor hearing for members of the public.

Forewind's consent manager for the project Melissa Read said that this is an inclusive and ongoing process designed to ensure everyone with comments on the proposals is able to have their say.

"I would encourage all fishermen and those from the fisheries industry with an interest in the development to regularly check the National Infrastructure Planning Portal as well as the Forewind website to ensure they are up to date with the progress of the examination phase," she said.

The screenshot shows the National Infrastructure Planning Portal interface. At the top, there's a navigation bar with 'Home', 'Projects', 'Application process', 'Legislation and advice', and 'Help'. The main content area is titled 'Dogger Bank Creyke Beck by Forewind'. It includes a progress bar showing 'Acceptance' and 'Pre-examination' stages. A notification states: 'The notification of Preliminary Meeting (rule 6 letter) has been sent. The letter also includes appointment of Examining Authority, draft timetable of examination, statement of principal issues.' Below this, there's a 'Recent activity' section with a list of events: 'Relevant representations published on the website' (19 November 2013), 'Registration of interested parties closes' (8 November 2013), 'Please note, we will be making changes to content within the application form tomorrow between 10pm and 4pm. We do not expect the changes to interfere with the submission of completed registration forms.' (29 October 2013), 'Registration of interested parties begins' (2 October 2013), and 'Decision on whether or not to accept the application for examination' (29 September 2013). There's also a 'What happens next' section detailing the preliminary meeting on Tuesday 18 February 2014. A map shows the project location in Yorkshire and the Humber. The bottom of the page has contact information for the Planning Inspectorate and Forewind.

The National Infrastructure Planning Portal will detail the examination phase progress.

Joint Statements of Common Ground underway

Forewind is well underway with preparing Statements of Common Ground (SoCG) for Dogger Bank Creyke Beck with all relevant local and national fisheries organisations.

The Statements of Common Ground are written statements prepared jointly and containing agreed factual information about the application. The aim is to clearly set out areas where Forewind and the fisheries groups both agree and disagree, and therefore help to streamline the examination process.



Statements of Common Ground with fisheries groups are well underway.

The Planning Inspectorate will use the SoCGs to help ensure that the evidence presented during the examination phase focuses on the material differences between both

Forewind and the fisheries organisations hopefully leading to a more efficient examination process.

3D computer simulation of Dogger Bank

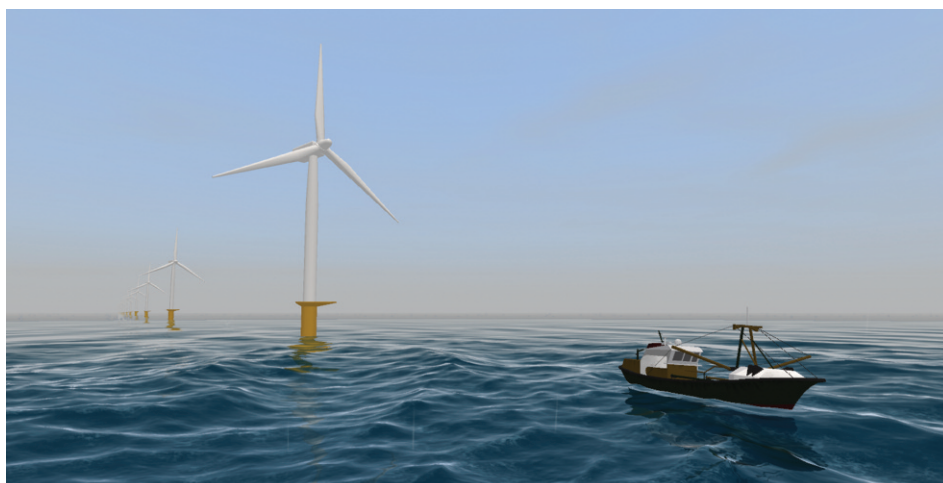
A 3D computer generated simulation of the proposed Dogger Bank offshore development will be produced to help offshore stakeholders, including the fisheries industry, determine what vessels and rescue helicopters will see once it is constructed.

Being developed following consultation with the Maritime and Coastguard Agency and Trinity House Lighthouse Service, the simulation will enable users to view what the wind farms would look like at sea height from the bridge of a vessel or at flight height from a helicopter cockpit.

The simulation will offer different scenarios in terms of wind turbine size and layout, type of foundation used and infrastructure including accommodation platforms, collector and converter stations, and meteorological masts.

Simulator users will also be able to control whether it is night or day and what sea and weather conditions they may encounter, such as fog, haze and rough waves.

Forewind's Offshore Environmental Impact Assessment Manager, Martin Goff said to make the model realistic, users will be able to drop in selected objects where they want such as tankers, cargo ships, construction or fishing vessels, search and rescue boats, life rafts or marker buoys.



A fishing trawler in the computer generated Dogger Bank development.

"With the option to drop in fishing vessels, or navigate from the perspective of a fishing vessel bridge, fishermen will be able to see how much space there may be available to safely continue fishing," he said.

"We are also looking at the option of working with the fishing community to include existing fishing vessel track data to make a video of fishing inside the wind farm and in the spaces between the wind turbines to better understand the scale, opportunities and constraints."

The simulation will be designed to show how one wind farm would appear relative to another, to give perspective on the spaces between the different wind farms and what the boundaries would look like on this scale.

"We anticipate that it will be a really user-friendly and valuable tool to reassure users of the sea about their ability to navigate Dogger Bank once the wind farms have been constructed."

It will be finalised in February and initially will be made available at meetings with the fishing industry and with fisheries representatives.

The interactive simulation is being produced by UK company, 3D Web Tech, specialists in innovative 3D computer generated graphics solutions.

Fisheries contacts

Any queries about Forewind's activity can be directed to:

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Lead contacts sought for working group

Lead contacts from each relevant national, regional and transboundary international fisheries organisations are now being sought to join a Fisheries Working Group.

The group being established by Forewind will hold collaborative meetings throughout the Dogger Bank project lifecycles, through the pre and post consent and construction phase as well as during operation. Its aim will be to disseminate project updates, such as survey, construction and operations and

maintenance schedules; and develop construction management plans and best practices, as well as provide a platform to discuss mitigation options.

Names and contact details of proposed lead contacts should now be sent to fisheries liaison coordinators, Stephen Appleby or Nigel Proctor whose remit it is to have the formal arrangement along with the scope, format and general administrative approach to be finalised by the spring.

Forewind

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