

LEGEND

1

Potential Teesside landfall areas

Converter station site search envelope

Onshore study area

Area outside of onshore study area

Settlement

Landfall search envelope

Forewind's preferred landfall

Designations

Woodland Trust Site

National Trails - Cleveland Way

Ancient Woodland

Country Park

North York Moors National Park

Local nature Reserve

Important Bird Area

RSPB Nature Reserve

RAMSAR

SPA

SSSI

Heritage Coast

Anchoring Prohibited

Teesside Offshore Wind Farm (under construction)

Local Planning Policy - Green Wedges

Cultural Heritage Designations

Listed Building

Parks & Gardens

Scheduled Monument

Cables

Out of service telecommunication cable

Active telecommunication cable

National Grid Cable

Teesside Offshore Wind Farm Export Cable (under construction)

Pipelines

Active Pipeline

Breagh Pipeline (under construction)

National Grid

Lackenby National Grid Substation

0 1 2
Kilometres

PROJECT TITLE
DOGGER BANK R3 DEVELOPMENT

DRAWING TITLE
**Figure 13
Landfall Search Area and
Forewind's Preferred Landfall**

VER	DATE	REMARKS	Drawn	Checked
1	27/04/2012	First Issue	AJ	NS

DRAWING NUMBER:
T-DES-0097-01

SCALE	PLOT SIZE	DATUM	OSGB	PROJECTION	BNG
1:60,000	A3				

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FOREWIND

Area 1 – South Gare to Coatham Rocks

- 5.28 This stretch of coastline is significantly constrained by existing and planned infrastructure including the Teesside Offshore Wind Farm which is currently under construction close to the shore and associated export cable, the existing CATS pipeline and the Breagh pipeline which is currently under construction.
- 5.29 Teesport is a strategically important shipping port and uses the Tees estuary. A large area next to the entrance of the Tees Estuary is designated as being appropriate for anchoring of vessels that use Teesport. This area is bounded by a designated “no-anchorage” area that follows the line of existing pipelines. Forewind received strong advice from the Teesport Harbour Master that the siting of any cables inside of the established anchorage area would introduce a significant risk to both the export cables and vessels from anchors drag.
- 5.30 There are a number of international and national ecological designations principally for ornithological interest.

Area 2 – Redcar to Marske-by-the-Sea

- 5.31 This stretch of coastline between Redcar and Marske is around 1.5km in length, backed by soft eroding cliffs, which vary in height from around 5m at the western extent to 15m at the eastern extent. The cliffs are considered to be of a suitable material for cable burial using the horizontal directional drill (HDD) method.
- 5.32 The existing, active offshore Pangea North telecommunications cable comes ashore between Redcar and Marske. There is also a sewage outfall pipe on stretch of coastline. It is considered that taking into account an appropriate buffer either side of this telecommunications cable, and the outfall pipe, there are sufficiently wide areas within this stretch of coastline to accommodate landfall for export cables for the four Dogger Bank Teesside projects.
- 5.33 There is significant shellfish potting activity within the nearshore area of this landfall.

Area 3 – Marske-by-the-Sea to Saltburn-by-the-Sea

- 5.34 This stretch of coastline between Marske-by-the-Sea and Saltburn-by-the-Sea is around 2.5km in length and increases in height from around 20m next to Marske-by-the-Sea up to 40m next to Saltburn-by-the-Sea.
- 5.35 The height and nature of the cliffs, combined with the alignment of urban development next to Marske-by-the-Sea are considered to represent a risk to the success of a horizontal directional drill (HDD), which is the preferred method for burying cables at the landfall.

- 5.36 There is no known existing or planned infrastructure in the nearshore area. However, similar to landfall Area 2, there is significant potting activity in the nearshore area.

Conclusion

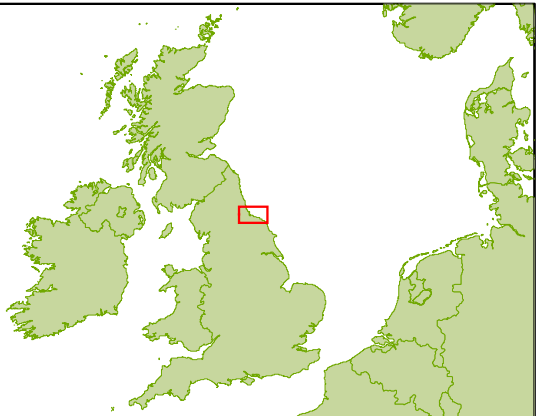
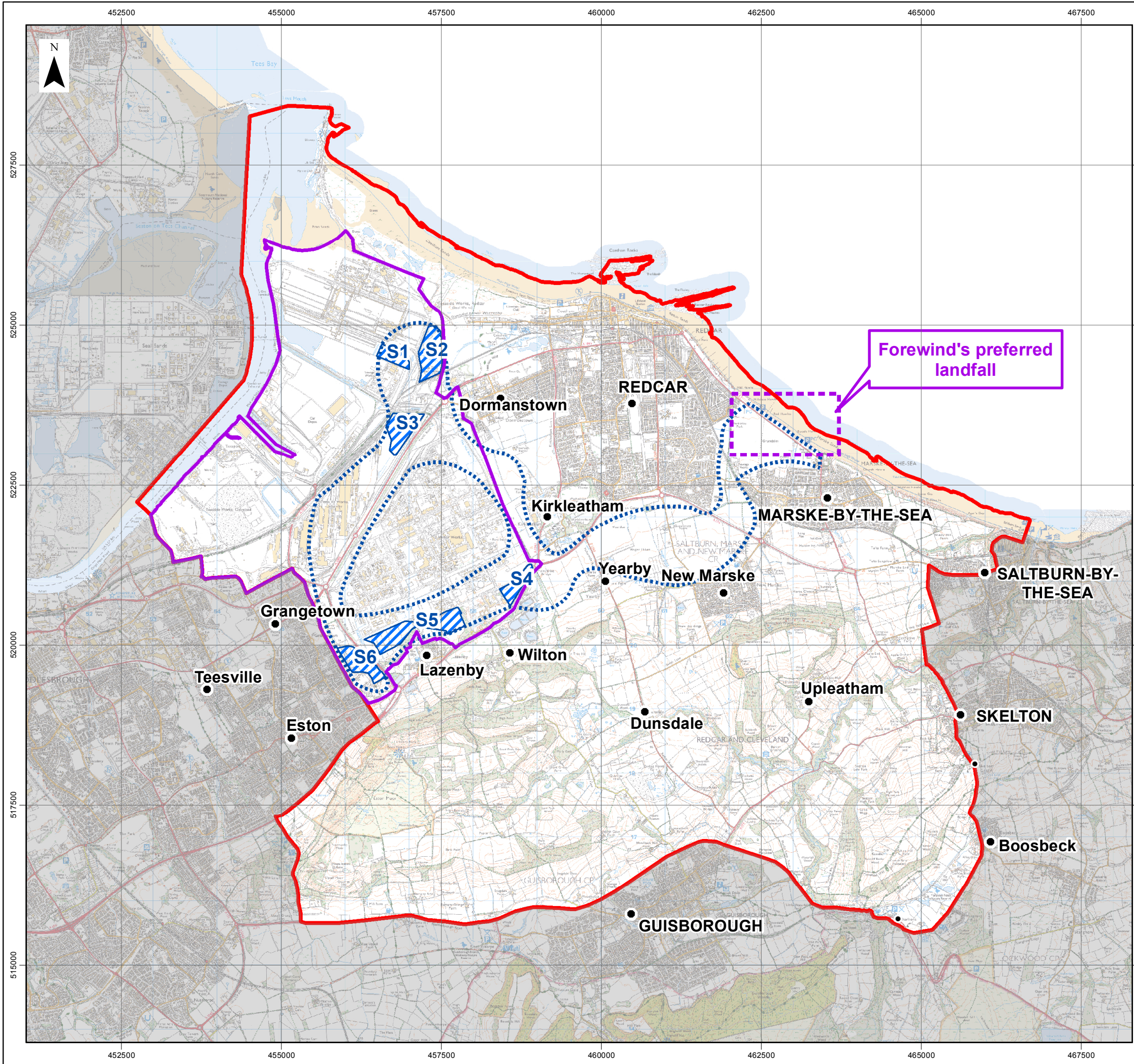
- 5.37 There are considered to be significant technical constraints to Areas 1 and 3 that pose a very significant risk to the development. Whilst there is an element of technical risk associated with Area 2, Forewind considers that these risks are acceptable. Further, Forewind considers that there would be no significant environment effects resulting from Area 2.
- 5.38 As such, Area 2 – Redcar to Marske-by-the-Sea has been selected as Forewind's preferred landfall.

Stage 5 – Identification of the shortlist of onshore converter station sites

- 5.39 There will be up to four onshore HVDC to HVAC converter stations included in the proposals for Dogger Bank Teesside. These may be co-located on a single site or split over two separate sites.
- 5.40 Six shortlisted converter station sites have been selected within the converter station site search envelope that Forewind initially established, following the characterisation of the onshore study area and a more detailed assessment of the search envelope.
- 5.41 The results of this consultation combined with the outcome of further survey work and assessment will inform the identification of a final site(s) for the converter stations. Full details of the converter station study area selection process are included in *Appendix C – Site Selection Report*.
- 5.42 The onshore converter stations will be connected to the National Grid substation(s) by underground HVAC cable systems. The final selection of the converter station sites will be determined by a number of factors, including effects on residential amenity and listed buildings, as well as technical considerations.
- 5.43 The processes to identify both the converter station short list and selection of the final converter station site take account of the National Grid's Guidelines on Substation Siting and Design (The Horlock Rules)¹⁰. These guidelines state that consideration must be given to environmental issues to balance the technical benefits and capital cost requirements of new developments.

¹⁰ For more information please refer to National Grid's website <http://www.nationalgrid.com>

- 5.44 Whilst it is expected that at least two of the Dogger Bank Teesside Projects will connect into the existing National Grid Lackenby substation, it is not known precisely where the further two projects will connect, although indications from National Grid are that it is highly likely to be located within the area that Forewind has identified as the converter station site search envelope.
- 5.45 Locating a converter station within or adjacent to the existing industrial area reduces the proliferation of industrial development away from current industrial zones.
- 5.46 A phased approach was taken to the identification of the shortlisted sites. Initially, a number of criteria were provided by Forewind to consultants Royal Haskoning, to identify an initial long list. This long list comprised 22 sites of varying size within the search envelope.
- 5.47 Further to this, Forewind refined the search criteria and reduced the available sites from 22 to nine. Forewind subsequently met with the landowners for six of the initial shortlisted sites to discuss the availability of sites, and the shortlist was subsequently refined from nine to down to six. These six sites are identified on Figure 14.



LEGEND

- Settlement
- Converter station site search envelope
- Onshore study area
- ▨ Shortlisted converter station site
- ... Indicative area for onshore cabling
- - - Forewind's preferred landfall
- Area outside of onshore study area

0 1 2
Kilometres

Source:
Shortlisted Converter Station Site © Royal Haskoning, 2011
Ordnance Survey © Crown copyright, All rights reserved, 2011. Licence number 0100031673

PROJECT TITLE				
DOGGER BANK R3 DEVELOPMENT				
DRAWING TITLE				
Figure 14 Converter Station Site Shortlist				
VER	DATE	REMARKS	Drawn	Checked
1	27/04/2012	First Issue	AJ	NS
DRAWING NUMBER:				
T-DES-0100-01				
SCALE	1:60,000	PLOT SIZE	A3	DATUM
		OSGB	PROJECTION	BNG
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- 5.48 The study concludes with the identification of six short listed converter station sites within the converter station site envelope.
- 5.49 The selection of the final converter station site(s) for the four Dogger Bank Teesside projects will take into account the results of this consultation exercise as well as number of issues including effects on local ecology, landscape and residential amenity. Commercial and technical issues will also be relevant considerations. Following selection of the converter station site(s), the environmental impact assessment and engineering assessments, as well as further consultation with landowners, will all inform the design and mitigation measures, which may include landscaping.

Stage 6 – Identification of the onshore cable corridor(s)

- 5.50 Owing to the uncertainty of the precise landfall and the precise converter station sites, onshore cable corridors have not yet been defined. However, an indicative onshore cable area has been identified. This is shown in Figure 14. It includes the preferred landfall area and encompasses the six shortlisted converter station sites.
- 5.51 The indicative onshore cable area takes into account relevant feature that were identified in the characterisation of the onshore study areas, including known archaeology and settlements.

Stage 7 – Identification of the offshore cable corridor(s)

- 5.52 An offshore cable route study area was identified between the Dogger Bank Zone and the onshore study area at Teesside. This study area is shown in Figure 12.
- 5.53 Forewind has made a design decision to route the four separate Dogger Bank Teesside offshore export cable systems within two offshore corridors between the zone and the landfall. Further details on this are provided in *Appendix C – Site Selection Report*. The location of the two export cable corridors depends on the locations of the Dogger Bank Teesside projects within the zone and the location of the landfall area(s), therefore is yet to be finalised.

Proposed Location of the Projects

- 5.54 The site selection process has identified –
- That the offshore elements of Dogger Bank Teesside within the zone will be wholly or partly located within Tranche A and Tranche B;
 - An offshore cable route study area extending from the Dogger Bank Zone to the onshore study area;

- The preferred landfall area: Area 2 – between Redcar and Marske-by-the-Sea;
 - An indicative onshore cable area; and
 - Six shortlisted onshore converter station sites.
- 5.55 The boundaries of these areas represent the proposed location for the offshore wind farm and associated infrastructure.
- 5.56 Forewind would like to emphasise that stakeholders still have the opportunity to influence the final location of the infrastructure and encourage them to make representations in response to this consultation so that these can be taken into consideration during the development process going forwards.
- 5.57 Further information on the site selection process to date is included in the *Appendix C – Site Selection Report*.

For more information

Visit www.forewind.co.uk

Forewind Ltd
Davidson House
Forbury Square
Reading
RG1 3EU



**DOGGER BANK
TEESSIDE A & B**

**March
2014**

Consultation Report

Appendix D.8

Community Consultation Questionnaire (2012)

Doc.No. F-STL-RP-001

Application Reference 5.1.4

Dogger Bank Teesside Questionnaire - community consultation – May 2012

Thank you for your interest in Dogger Bank Teesside. We value your opinions and feedback and would appreciate completion of this questionnaire to help us further. Please note that all comments may be made public as part of the consent application process.

1. How did you hear about this exhibition (please tick)?

Invitation	<input type="checkbox"/>	Newspaper	<input type="checkbox"/>	Website	<input type="checkbox"/>
Radio	<input type="checkbox"/>	Word-of-mouth	<input type="checkbox"/>	Other	<input type="checkbox"/>

2. Do you have any comments on the indicative components or the way the wind farms (including all the onshore and offshore infrastructure) will be built, operated or decommissioned? _____

3. What is your opinion of Forewind's landfall and converter station site selection process so far? Have all the relevant alternatives have been considered? _____

4. Six converter station sites have been short-listed– do you have comments on any or all of them? Please use the reference numbers as per the plans if you would like to refer to a specific site. _____

5. Are you aware of any other information or facts that Forewind should take into account when finalising the locations for the following:

Offshore wind farms _____

Offshore cable route corridors _____

Landfall(s) _____

Onshore cable route(s) _____

Onshore converter stations _____

Other _____

6. Do you have any comments on Forewind's approach to the environmental impact assessment? _____

7. Having seen the development proposals, can you identify any potential benefits or opportunities for the local area? _____

8. How do you feel about the development (please tick)?

Positive

☐

Neutral

☐

Negative

☐

Why? _____

9. Do you have any other comments? _____

10. Do you feel this exhibition provided enough information about the proposed development (please tick)?

Yes

☐

No

☐

11. How could Forewind improve our communications with you? _____

If you would like to receive updates on Dogger Bank Teesside, please fill in your contact details:

Name: _____

Email: _____ Phone: _____

Postal address: _____

My preferred method to receive communication is (please tick):

Email:

☐

Post:

☐

All personal details will be held in accordance with the Data Protection Act and will not be passed to any third parties.

Please return this questionnaire to a member of the Forewind team or post to:

Freepost RSLY-HKGK-HEBR, Forewind, Davidson House, Forbury Square, Reading RG1 3EU

For more information, please refer to our website www.forewind.co.uk or contact us via info@forewind.co.uk or freephone: 0800 975 5636

Thank you. Your feedback is appreciated.



**DOGGER BANK
TEESSIDE A & B**

**March
2014**


Consultation Report

Appendix D.9

Library locations within which the initial SoCC and Preliminary Environmental Information were made available

Doc.No. F-STL-RP-001

Application Reference 5.1.4

	DOGGER BANK TEESSIDE	Preliminary Environmental Information	May 2012
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Copies of these documents are available at the libraries listed below:

Grangetown Library	171 Birchington Avenue	Middlesbrough	TS6 7LP
Kirkleatham Museum	Kirkleatham	Redcar	TS10 5NW
Laburnum Road Library	Laburnum Road	Redcar	TS10 3QS
Marske Library	Windy Hill Lane	Marske	TS11 7BL
Mobile Library	C/O Roseberry Library	Redcar	TS10 4NY
Redcar Central Library	Kirkleatham Street	Redcar	TS10 1RT
Roseberry Library	Roseberry Road	Redcar	TS10 4NY
Saltburn Library	Windsor Road	Saltburn by the Sea	TS12 1AT
The Wilton Centre	Wilton	Redcar	TS10 4RF



**DOGGER BANK
TEESSIDE A & B**

**March
2014**

Consultation Report

Appendix D.10

Press release published on the Forewind website and sent to newspapers and media outlets during the first phase of statutory consultation

Doc.No. F-STL-RP-001

Application Reference 5.1.4

News

News

News archive

08-05-2012

Forewind announces community consultation for Dogger Bank Teesside

Forewind has today announced its first community consultation events in relation to its second stage of offshore wind development: Dogger Bank Teesside.

Dogger Bank Teesside is planned to comprise up to four offshore wind farm projects located at least 156 kilometres off the Teesside coast and with a total generating capacity of up to 4.8GW.

The three consultation events will present proposals for the development, which could potentially generate almost 17 Terawatt hours (TWh) of green power every year, equivalent to the electricity used annually by approximately 3.6 million British homes^[1].

This series of events is the first in relation to Dogger Bank Teesside and will be held at locations near the proposed landfall locations and onshore cable routes. They are part of a wider consultation process Forewind will undertake with all stakeholders including statutory bodies, landowners and local authorities in accordance with sections 42 and 47 of The Planning Act 2008.

The local community is encouraged to attend at least one of the events to view the proposals, speak to members of the Forewind team and submit feedback

There will be three consultation events as follows:

Consultation Events

Venue	Date	Time
Kirkleatham Museum Redcar, TS10 5NW	Thursday 24 May	2 – 8pm
Redcar Central Library Redcar & Cleveland House, Kirkleatham Street, Redcar TS101RT	Friday 25 May	11am – 5pm
Lazenby Village Hall High Street, Lazenby, TS6 8DU	Saturday 26 May	11am – 5pm

A Statement of Community Consultation with additional details about the full consultation process for Dogger Bank Teesside has been published [here](#) and is available for viewing at local public libraries and council offices.

^[1] This calculation assumes a capacity factor of 40% and uses an average British home electricity consumption of 4.7 MWh per annum



**DOGGER BANK
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**March
2014**

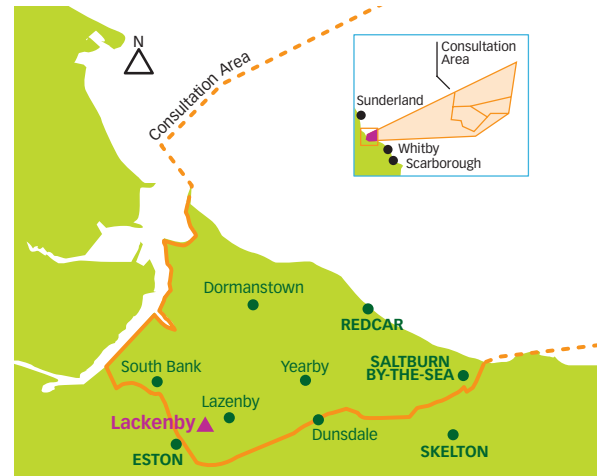
Consultation Report

Appendix D.11

Example of the poster distributed in local communities to advertise the public exhibitions and make local communities aware of the project

Doc.No. F-STL-RP-001

Application Reference 5.1.4



DOGGER BANK TEESSIDE

Invitation to community consultation events

Forewind, developer of the Dogger Bank offshore wind farm zone, invites you to a community consultation presenting proposals for our next stage of development: Dogger Bank Teesside.

Dogger Bank Teesside will comprise up to four offshore wind farms, each with a maximum generating capacity of up to 1.2GW. It is proposed to connect into the national grid at two sites in Teesside.

Located 156km off the coast of Teesside, the wind farms will comprise onshore and offshore export cables, onshore converter stations and other associated infrastructure.

These are the first consultation events in relation to Dogger Bank Teesside.

Additional details about our community consultation process for Dogger Bank Teesside can be found in the Statement of Community Consultation which is available on our website and at local libraries and community venues along with consultation documents. The deadline for responses to this consultation is Friday 22 June 2012.

There will be three consultation events as follows:

Venue	Date (2012)	Time
Kirkleatham Museum Redcar, TS10 5NW	Thursday 24 May	2 – 8pm
Redcar Central Library Redcar & Cleveland House, Kirkleatham Street, Redcar TS10 1RT	Friday 25 May	11am – 5pm
Lazenby Village Hall High Street, Lazenby, TS6 8DU	Saturday 26 May	11am – 5pm

For more information or to contact us

Website	www.forewind.co.uk
Email	info@forewind.co.uk
Free phone	0800 975 5636
Post	Freepost RSLY-HKGK-HEBR Forewind Davidson House Forbury Square Reading, RG1 3EU



**DOGGER BANK
TEESSIDE A & B**

**March
2014**

Consultation Report

Appendix D.12

Example of the public exhibition panels

Doc.No. F-STL-RP-001

Application Reference 5.1.4

Welcome

Purpose of today

Welcome to this consultation event run by Forewind. This event is about the Dogger Bank Teesside development and is part of a programme of community consultation activities that Forewind will undertake during its development.



The aim of this exhibition is to explain the project and where we have got to in the development process as well as to give you the opportunity to meet the Forewind team, ask questions, give feedback and express your views about what you see.

We hope visitors will be able to provide us with additional information that may help us to refine and improve our proposals.

While community and stakeholder consultation is required under the Planning Act 2008, effective and meaningful consultation is integral to Forewind's development approach, along with our commitment to transparency in all our consultation and engagement activity.

Please read our panels and materials and ask questions of our representatives here today. There is a questionnaire/feedback form that you can fill in before leaving to let us know what you think about the project and this event. Freepost cards are available if you wish to send us queries or comments at a later date.

How to respond

Feedback from this consultation will help us to inform and finalise locations for the offshore wind farms and associated infrastructure within the Dogger Bank Zone, offshore export cable routes, cable landfalls, onshore cable routes) and converter stations. Forewind welcomes any comments on these elements but in particular would appreciate feedback on:

- The project description, including the possible components, the construction methodologies, operation and maintenance and/or decommissioning
- Forewind's proposed approach to the Environmental Impact Assessment
- Forewind's site selection process to date and whether it is a comprehensive assessment of the relevant alternatives
- Any or all of the six short-listed converter station sites.

Phase One consultation responses must reach Forewind by Friday 22 June to ensure that they are considered. However, Forewind will endeavour to consider any responses received outside this period, wherever possible.

You can respond to Forewind via:

Website	www.forewind.co.uk
Email	info@forewind.co.uk
Free phone	0800 975 5636
Post	Freeport RSLV-HKOK-HEBR Forewind Davidson House Forbury Square Reading RG1 3EU

What happens next?

- Responses received during this consultation period will be used to inform the on-going development process for Dogger Bank Teesside. They will be used, along with discussions with landowners and other stakeholders, and with on-going environmental survey work to:
- Identify the location and layout of the offshore wind farm components
 - Identify the final location(s) of the offshore cable route(s)
 - Identify the final location(s) of the landfall area(s)
 - Identify the final location(s) of the onshore cable route(s)
 - Identify the final locations of the onshore converter stations
 - Update the project description
 - Inform the Environmental Impact Assessment.

The indicative development programme for Dogger Bank Teesside, assuming current grid connection dates, is:

Date	Activity
By mid 2012	First stage of statutory consultation
2012 – 2013	Environmental surveys and reporting
Mid 2013	Second stage of statutory consultation
By end 2013	Submit application(s) for Development Consent Order(s)
Mid 2015	Application(s) determined
2015 – 2017	Pre-construction phase
2016 – 2021	Construction
2017 onwards	Operation

We appreciate your attendance and interest in the Dogger Bank Teesside development.



Location of Dogger Bank Zone

Rationale

Why offshore wind?

There are many reasons why offshore wind is an integral part of the UK's energy generation mix. While no single energy source or generation technology is ever likely to provide a total solution to our energy needs, wind power is currently the most technically and commercially viable of the renewable energy technologies, enabling us to make good progress towards reducing our reliance on fossil fuels.

Why offshore wind?

The UK has a huge natural wind resource – more than 33% of the total European potential and equivalent to three times the UK's annual electricity consumption.

By harnessing the energy in the wind to generate electricity, the UK can become less reliant on imports for our energy. This will reduce our exposure to the type of price and availability fluctuations that can result from political or economic instability in some of the countries supplying the UK with oil, gas and coal. We have already seen these issues affect our energy supplies and they are more likely to occur as oil and gas reserves deplete over time.

Climate change

It is now widely accepted that human activity does impact the world's climate. If we are to avoid serious and irreversible changes to our climate and world ecosystems, we must reduce emissions of greenhouse gases, such as carbon dioxide.

The UK aims to generate 15% of its energy from renewable sources by 2020, helping to meet the EU targets of reducing carbon emissions by 20% over the same period. This target is equivalent to a seven-fold increase in UK renewable energy consumption from 2008 levels, and offshore wind will go a long way towards helping the UK meet this ambitious goal. The UK is further committed to reducing its greenhouse gas emissions by at least 80% by 2050, relative to 1990 levels.

While some carbon is used in the manufacture and construction of offshore wind farms, it has been demonstrated that wind farms pay back this carbon many times over during their lifetime by displacing energy generated from fossil fuels.

Economic benefits

The UK has a huge opportunity to benefit economically from the rapidly growing wind industry. Proposed investment announcements, for example a new turbine manufacturing operation in Humberston, and the development of new plant, such as the opening of a foundation fabrication facility in Teesside, are proof that businesses are keen to invest and create jobs in a wide variety of sectors.

"Meeting the renewable energy targets is not just about preventing climate change and securing future energy supplies. Achieving the targets could provide £100 billion worth of investment opportunities and up to half a million jobs in the renewable energy sector by 2020"

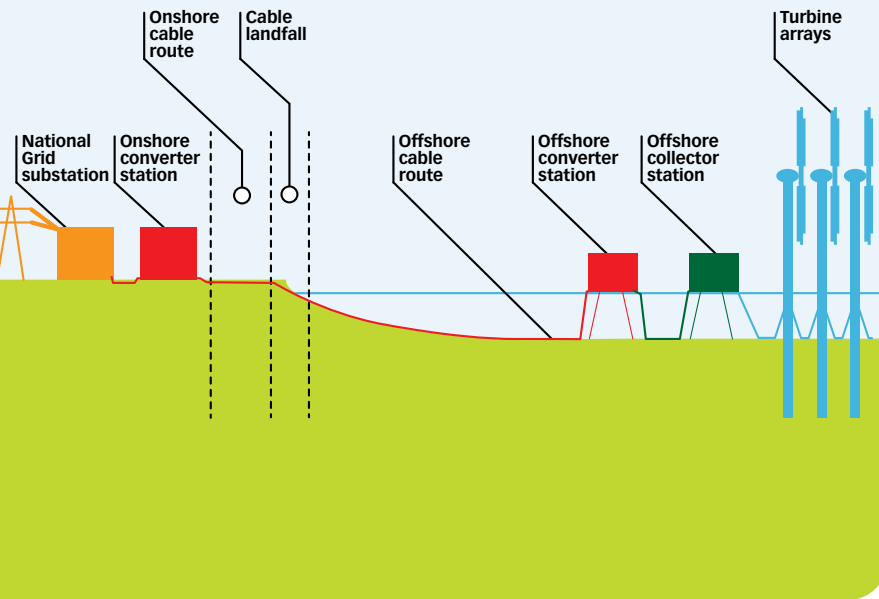
- Department of Energy and Climate Change website



How a wind farm works

Offshore wind turbines convert energy from the wind into electrical energy. Electricity is transmitted from the wind turbines to offshore collector stations by inter-array cables. The collector stations transform the electricity into a higher voltage, at which point it passes through an offshore converter station, which will convert the electricity from alternating current (AC) to direct current (DC). This helps to minimise the electrical losses as the electricity travels back to shore.

The offshore export cables bring the electricity to shore where they are connected to underground onshore cables, which carry the electricity to one or more onshore converter stations. These converter stations will convert the electricity back to AC and transform it up to 400kV so that it can then be transmitted via underground cables to a National Grid substation and then on into the national transmission network.



Forewind

Forewind – development partner for Dogger Bank
Forewind is a consortium, comprising four leading international energy companies, which joined forces to bid for the Dogger Bank Zone Development Agreement as part of The Crown Estate's third licence round for UK offshore wind farms (Round 3).

The Crown Estate Round 3 zones are much larger than those awarded in Round 2 so most of them have the potential for the construction of multiple wind farm sites.

As development partner for Dogger Bank, the largest of the Round 3 zones, Forewind has the objective to achieve consent for an agreed target installed capacity of 9 gigawatts (GW) of offshore wind farm projects, however the Zone has a potential for up to 13GW. This figure equates to almost 10 per cent of the UK's projected electricity requirements. If fully developed, it is likely to be the world's largest offshore wind project.

Forewind is committed to securing all the necessary consents required for the construction and development of Dogger Bank.

Forewind's owner companies are:



RWE power renewables is the UK subsidiary of the German renewable energy company RWE Energy (part of RWE AG) that has a strong, diversified position in renewables with significant ambition for growth throughout Europe.



SSE is one of the largest energy companies in the UK and is involved in the generation, transmission, distribution and supply of electricity, the storage, distribution and supply of gas, telecommunications, contracting, and other energy services.



Statkraft is Europe's leader in renewable energy. The group develops and generates hydropower, wind power, gas power and district heating, and is a major player on the European energy exchanges. Headquartered in Norway, Statkraft is active in more than 20 countries.



Statoil is an international energy company with operations in 34 countries. Building on more than 35 years of experience from oil and gas production on the Norwegian continental shelf, Statoil is committed to accommodating the world's energy needs in a responsible manner, applying technology and creating innovative business solutions. Statoil is headquartered in Norway with 20,000 employees worldwide.



Owner company offshore wind projects. Clockwise from top left: Greater Gabbard, North Hoyle, Sheringham Shoal and Hywind



About Dogger Bank

Largest Round 3 zone

The Dogger Bank Zone is in the North Sea, located between 125 and 290 kilometres off the east coast of Yorkshire. It extends over approximately 8660km² with its outer limit aligned to the UK continental shelf limit as defined by the UK Hydrographic Office. Dogger Bank is the largest of the Round 3 zones but with water depths ranging from 18 to 63 metres, it is also one of the shallowest.

It is recognised that not all of the Dogger Bank Zone is suitable for wind farm development. Forewind will identify suitable wind farm sites in consultation with stakeholders, carry out thorough Environmental Impact Assessment and further consultation on these sites before submitting applications for consent to build and operate the wind farms.

The Dogger Bank Zone has many attributes making it an attractive site for offshore wind farm development. It has a good wind resource with higher annual mean wind speeds than the other Round 3 offshore wind farm zones (more than 10 metres per second). It also has relatively shallow water depths and good ground conditions, which should enable a broad range of foundation options.

However it also has a number of challenges, not least because it is a huge geographic area located a considerable distance from shore. The project heralds a completely new era for offshore wind and there are many technical and logistical challenges to be addressed. Forewind will need to draw fully on the experience of each of the owner companies and will also look for innovative suppliers and contractors to help meet the challenges and achieve consent.

Forewind is well underway with its Zone Appraisal and Planning – a zone characterisation process comprising a series of studies, surveys and assessments, research and on-going consultation that will help with the selection of suitable sites for wind farm development.

Forewind has already produced a zonal characterisation document featuring information on the environmental character of the zone development envelope – within which the offshore wind farm zone and the possible area for export cables are situated. A copy of this document is available at this exhibition and on our website www.forewind.co.uk

Key facts

Size
8660 km²
(3343 square miles)
Largest of the Round 3 zones
Equivalent to size of North Yorkshire

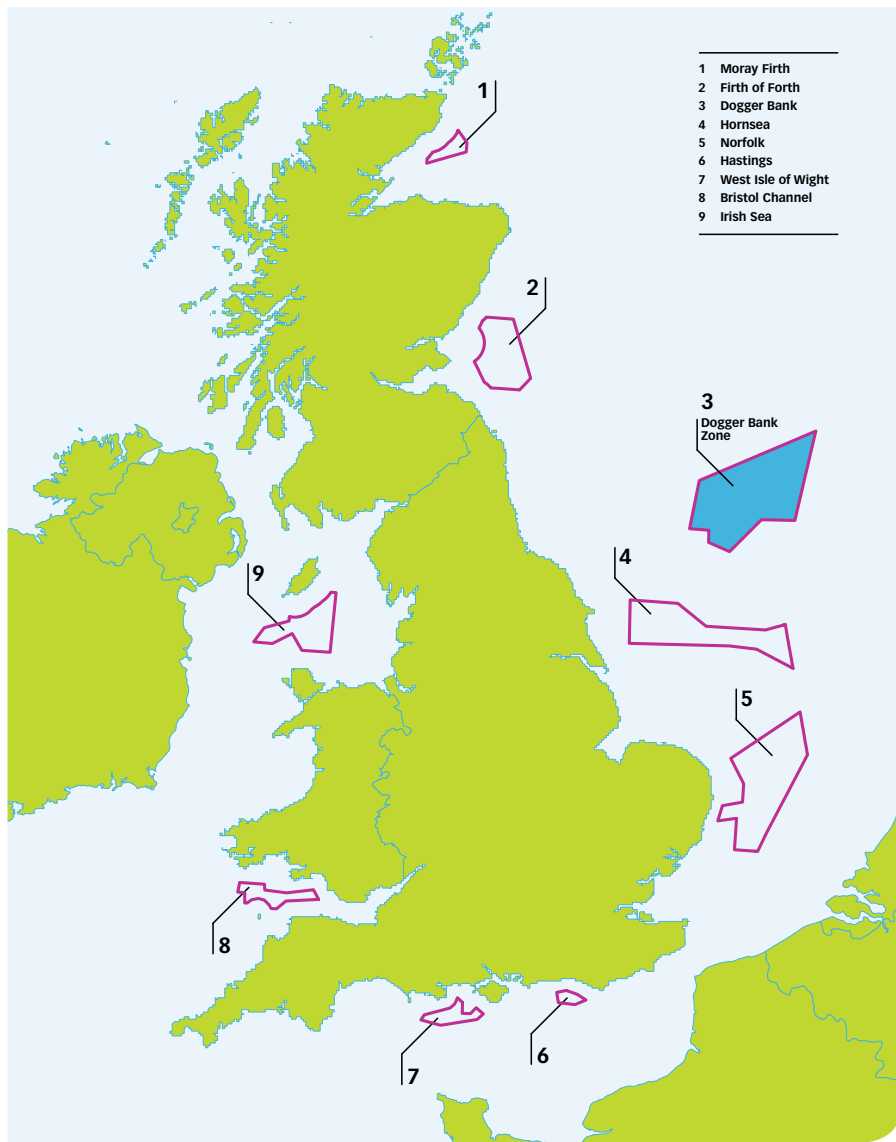
Distance from shore
125 to 290 kilometres
(77 to 180 miles)

Water depth
18 to 63 metres
(59 to 206 feet)

One of the shallowest of the Round 3 zones. It has the potential for approximately 4GW development capacity in less than 30m water depths and 8GW in less than 35m water depths.

Estimated capacity
Agreed target 9GW, with the potential for approximately 13GW.

CO₂ reduction
The 9GW Dogger Bank development would reduce CO₂ emissions by approximately 13.7 million tonnes per annum, based on the current UK energy mix and an assumed capacity factor of 40%.



Map of Round 3 wind farm zones

Developing the zone sequentially

Forewind has the objective to achieve development consent for an agreed target installed capacity of 9GW of offshore wind farm projects. To ensure that the work associated with meeting this objective is managed effectively, and to more evenly distribute demands on stakeholders and the supply chain, Forewind has proposed to develop the zone sequentially in four stages, known as tranches.

The on-going Zone Appraisal and Planning (ZAP) process will use both available information and the outcome of stakeholder consultations to identify the optimum location of these tranches offshore. Tranche A was identified in 2010, Tranche B was identified in 2011 and Tranche C and D will be defined at a later stage.

Forewind expects that each tranche could accommodate up to three wind farm projects, each with a maximum generating capacity of 1.2GW. The identification of individual wind farm project boundaries will take into account stakeholder discussions and environmental and engineering factors. Project boundaries may straddle tranche boundaries.

Each project will comprise several hundred wind turbines (depending on the size of turbines selected), a number of offshore substations, export cables, onshore converter stations and associated infrastructure. The wind farms may be developed one after the other, or in parallel as part of a larger project, depending on the grid connection location and other variables.

The location of the onshore points of connection to the national electricity transmission network will be determined through a formal grid connection application process with National Grid. The location of the cable routes and onshore infrastructure will then be determined by Forewind through a site selection process which will include consideration of land use, environmental, technical and commercial constraints as well as stakeholder opinion.

Each of Forewind's offshore wind farm projects will be classed as a Nationally Significant Infrastructure Project under the definitions set out in the Planning Act 2008. Therefore, Forewind will have to fulfil the Planning Act's requirements before submission of its application(s) for a Development Consent Order to the National Infrastructure Directorate of the Planning Inspectorate for the construction and operation of a proposed project. The decision is finalised by the Secretary of State for Energy and Climate Change.

Zone development process

1	2	3	4	5	6
Zone awarded to Forewind	Stakeholder identification and consultation	Zone Appraisal and Planning	Identification of tranches for development	Identification of projects within each tranche	Individual project development/consenting process
>	>	>	>	>	>
	Engagement objectives set out in Stakeholder Engagement Plan	Zone characterisation process including production of Zonal Characterisation Report	Four tranches will be identified	Stakeholder consultation, environmental surveys and assessment, engineering and economic factors considered	Up to 11 projects with a maximum installed capacity of 1.2GW each



Dogger Bank Teesside

Second stage of development

Dogger Bank Teesside is the second stage of Forewind's development of the Dogger Bank Zone. It will comprise up to four wind farms, each with a maximum installed capacity of 1.2GW. They are expected to connect to the national grid in Teesside, just south of the Tees Estuary.



Dogger Bank Teesside follows Dogger Bank Creyke Beck, a 2.4GW development comprising two wind farm projects connecting to an existing substation near Hull in the East Riding of Yorkshire.

The whole Dogger Bank Teesside development could have a total generating capacity of up to 4.8GW which means it has the potential to generate almost 17 Terawatt hours (TWh) of green power every year, which is equivalent to the electricity used annually by approximately 3.6 million British homes¹.

Forewind expects that at least two of the wind farms will connect to the existing National Grid Lackenby Substation, which is near Eton, and that the other two wind farms will connect into a new substation which National Grid plan to build to upgrade an existing facility in Teesside. The location of the new substation is not yet known but it is also likely to be south of the Tees Estuary in the industrial area of Teesside.

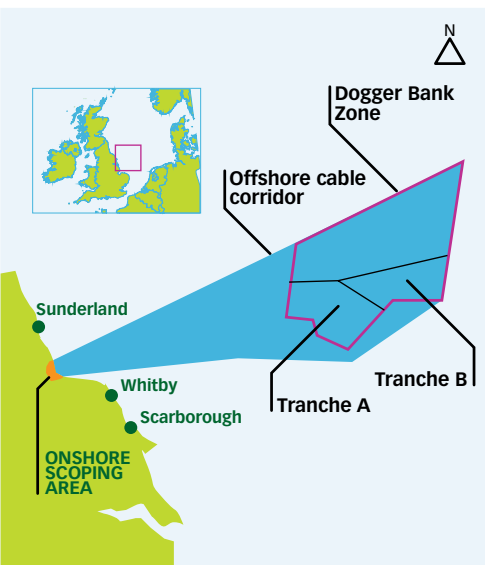
At the end of the development phase, Forewind will either submit a single combined application for the four wind farm projects, or may submit up to four separate applications for individual wind farm projects. Forewind will inform stakeholders of its decision at the final stage of consultation.

The offshore elements of Dogger Bank Teesside will be located wholly or partly within Tranche A and Tranche B, and will comprise turbines and foundations, offshore collector and converter stations, offshore accommodation platforms, subsea inter-array cables and subsea export cables to a landfill point or points on the Teesside coast.

The onshore element will include buried cables from the landfalls to the onshore converter stations, up to four converter stations and buried cables from the converter stations to the National Grid substations).

Project development and consenting process

1	2	3	4	5	6	7	8
Notification of the proposal application to the National Infrastructure Directorate (NID) of the Planning Inspectorate	Identification of project specific stakeholders	Consultation on approach to Environmental Impact Assessment (EIA) and site selection process	Continuation of EIA process	Stakeholder consultation and feedback	Further consultation prior to application	Submission of final Environment Statement and Consultation Report as part of the application for consent	Examination of application by the National Infrastructure Directorate and decision by the Secretary of State for Energy and Climate Change
>	>	>	>	>	>	>	>
	Preliminary consultation with technical consultees	Evaluation of Statement of Community Consultation (SCC) following agreement with local authorities	Engaging offshore and onshore environmental surveys, studies, research and engagement with technical consultees on the EIA methodology	Engaging offshore and onshore environmental surveys, studies, research and engagement with technical consultees on the EIA methodology	Initial presentation of proposals to stakeholders including the local community	This may include the collected opinion on the Scoping Report by the NID	Feedback mechanisms include website, helpline number and freepost



Location of Dogger Bank Teesside

Maximum number of key project components

Key project component	One 1.2GW project	Four 1.2GW projects
Wind turbine generators (assuming a 3MW machine)	400	1600
Offshore collector station platforms	4	16
Offshore converter station platforms	1	4
Cable systems connecting offshore converter stations to the onshore converter stations	1	4
Buried joint transition bays at the landfill	2	8
Onshore converter stations	1	4
Cable systems connecting onshore converter stations to National Grid's substations	1	4

¹ This calculation assumes a capacity factor of 40% and uses an average British home electricity consumption of 4.7MWh per annum

Offshore wind farm

Location and infrastructure

In October 2010 Forewind identified the boundary of Tranche A while Tranche B was identified in late 2011. Both were defined using information collected in a series of stakeholder workshops and discussions, and following an assessment of the relevant technical, environmental and commercial considerations associated with offshore wind farm project delivery and operation.



Tranche A is an area of 2000 km² in the south west section of the Dogger Bank Zone. Tranche B is an area of approximately 1,500km² in the south east of the zone. The offshore components for Dogger Bank Teesside, except the export cables, are expected to be wholly or partly located in Tranche A and Tranche B.

- The offshore element of Dogger Bank Teesside will comprise:
- Up to 1600 offshore wind turbine generators with the number being dependent on the size of turbine selected (which could be from 3MW to 10MW)
 - Alternating current (AC) cabling between the offshore wind turbine generators (inter-array cabling) and offshore platforms
 - Offshore collector stations and offshore AC to direct current (DC) converter stations including foundations and scour protection measures
 - Offshore operations and maintenance infrastructure including offshore accommodation
 - Permanent moorings, navigational buoys and scour protection measures
 - Offshore meteorological masts and metocean equipment
 - Offshore high voltage direct current (HVDC) export cable systems from the offshore AC to DC converter stations to the landfall on the Teesside coastline
 - Crossing structures at the points where the export and inter-array cables cross existing subsea cables and pipelines
 - Buried onshore cable joints at the landfall where the offshore export cables come onshore and join the onshore cables.

The boundaries for each of the projects will be identified following on-going stakeholder consultation, detailed consideration of environmental impacts and on-going engineering feasibility and design studies.

Please let us know if you have any information that would help with the selection of the locations of our projects.



Landfall

The landfall location is the stretch of coastline Forewind considers as the most feasible to bring its export cables ashore having taken into account a range of technical, commercial, environmental and ecological considerations.

As Dogger Bank Teesside comprises four offshore wind farm projects, the export cables from each of these wind farms may come ashore at the same location or at four separate locations.

To seek the best locations to bring these cables ashore, Forewind first defined and then characterised both an onshore study area and nearshore cable corridor area, to identify any onshore or nearshore constraints associated with potential landfalls.

Following a review of these onshore and nearshore constraints, as well as an assessment of the technical constraints of the coastline and consultations with a number of stakeholders, three broad potential landfall areas were identified.

Area 1 – South Gare to Coatham Rocks

This stretch of coastline is significantly constrained by existing and planned infrastructure including the Teesside Offshore Wind Farm now under construction, existing Central Area Transmission System pipeline and the Breaigh pipeline, also under construction.

Teesport is a strategically important shipping port using the Tees Estuary. A large nearshore area by the Tees Estuary entrance is designated as appropriate for anchoring of vessels that use Teesport. This is bounded by another area designated as “no-anchorage” and which follows the line of existing pipelines. The siting of any cables inside the established anchorage area would pose a significant risk to both the cables and vessels due to anchor drag.

Area 1 also includes a number of international and national ecological designations, primarily for birds.

Area 2 – Redcar to Marske-by-the-Sea

This stretch of coastline between Redcar and Marske-by-the-Sea is 1.5km in length, and is backed by soft eroding cliffs varying in height from around 5m to 15m. The cliffs are considered to be suitable for cable burial with the use of horizontal directional drilling.

The existing offshore Pangea North telecommunications cable comes ashore between Redcar and Marske-by-the-Sea and there is also a sewage outfall pipe on this stretch of coastline. With an appropriate buffer either side of both the telecommunications cable and the sewage outfall pipe, there are sufficiently wide areas within this stretch of coastline to accommodate landfall for export cables for the four Dogger Bank Teesside projects.

There is some shellfish potting activity within the nearshore area of this landfall.

Area 3 – Marske-by-the-Sea to Saltburn-by-the-Sea

This 2.5km stretch of coastline between Marske-by-the-Sea and Saltburn-by-the-Sea increases in height from around 20m up to 40m.

Both the height and nature of the cliffs, combined with the urban development next to Marske-by-the-Sea, would make it difficult to carry out horizontal directional drilling, which is the preferred method for burying cables at the landfall. The higher cliffs would mean the cables would need to be buried deeper below the surface, which could affect their operational performance. Hence an increased risk associated with selection of this landfall area.

There are no known existing or planned pipelines, cables or other infrastructure in the nearshore area, however, similar to landfall Area 2, there is significant shellfish potting activity.

Conclusion

The technical constraints at landfall Areas 1 and 3 are considered to pose a significant risk to development. Although there is an element of technical risk associated with landfall Area 2, Forewind believes this to be acceptable. Importantly, it is considered that there would be no significant environmental effects resulting from landfall Area 2 and it has therefore been selected as the preferred landfall.

Forewind will now undertake further onshore and nearshore surveys at, and around, landfall Area 2. The results of these surveys, as well as stakeholder consultation, will help to further refine the appropriate stretches of landfalls within that area.

Please let us know if you have any comments or information that might help us further refine the landfall area.

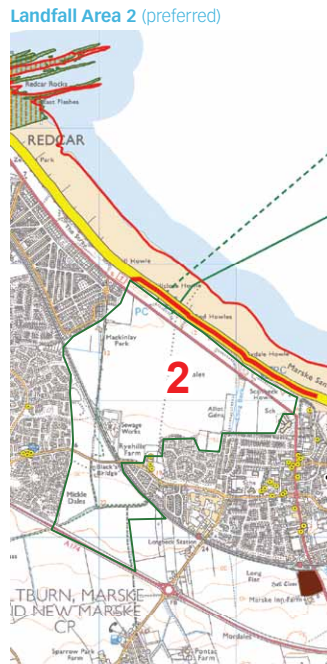
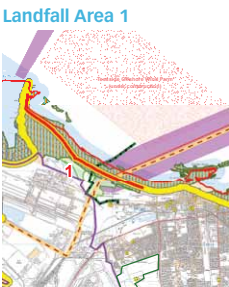
Offshore export cable corridor

An offshore cable route study area was identified between the Dogger Bank Zone and the onshore study area at Teesside.

Forewind plans to route the four separate Dogger Bank Teesside offshore export cable systems within two offshore corridors between the zone and the landfall. As the location of the two export cable corridors depends on the locations of the Dogger Bank Teesside projects within the zone and the location of the (landfall area(s)) – both of which are not yet finalised – the cable corridors have not yet been identified.

Please let us know if you have any information that may help us refine the offshore export cable corridors.

Potential landfall areas



Legend

- Potential Teesside landfall areas
- Converter station site search envelope
- Dogger Bank Teesside scoping envelope
- Area outside of scoping envelope
- Settlement
- High cliffs
- Landfall search envelope

Designations

- National trails – Cleveland Way
- Ancient woodland
- Country park
- Important bird area
- ISPS nature reserve
- RAMSAR
- SPN
- SSSI
- Heritage coast
- Anchoring prohibited
- Teesside Offshore Wind Farm (under construction)
- Local planning policy – Green Wedges

Cultural heritage designations

- Listed buildings
- Parks and gardens
- Scheduled monument

Cables

- Out of service telecommunication cable
- Active telecommunication cable
- National Grid cable
- Teesside Offshore Wind Farm export cable (under construction)

Pipelines

- Active pipeline
- Breaigh pipeline (under construction)

National Grid

- Lackenny National Grid Substation

Onshore converter stations

Onshore converter stations will be needed to convert the electricity carried by the onshore cables from high voltage direct current to high voltage alternating current so that it can be fed into the UK transmission network.



Site selection process

The proposals for Dogger Bank Teesside will include up to four onshore converter stations which may be co-located on a single site or split over two separate sites. The onshore converter stations will be connected to the National Grid substation(s) by underground cables.

To date, Forewind has defined and characterised a broad onshore study area including all of the landfall areas, and has carried out a more detailed assessment of a converter station site search envelope identified earlier. Using a phased approach, a long list of 22 possible sites was originally defined from within this envelope. The search criteria were refined and this number was reduced from 22 to nine.

Forewind then met with the landowners of the initial shortlisted sites to discuss land availability, which helped to reduce the number of potential sites from nine to six. Six shortlisted converter station sites have now been selected, which could each accommodate converter stations for at least two projects (see maps opposite).

The identification of the final converter station sites will be determined by a number of factors, including feedback from this consultation, the outcome of further survey work, assessment of technical and commercial considerations and possible effects on residential amenity, local landscape and other factors such as the setting of nearby listed buildings.

The process to identify both the converter station short list and the final converter station sites, is in line with the National Grid guidelines which state that consideration must be given to environmental issues to balance the technical benefits and capital cost requirements of new developments.

The location of the converter station sites is part of the subject of this consultation. Please let us know if you have any information on the location of the converter stations within this area or any other feedback related to the converter stations.

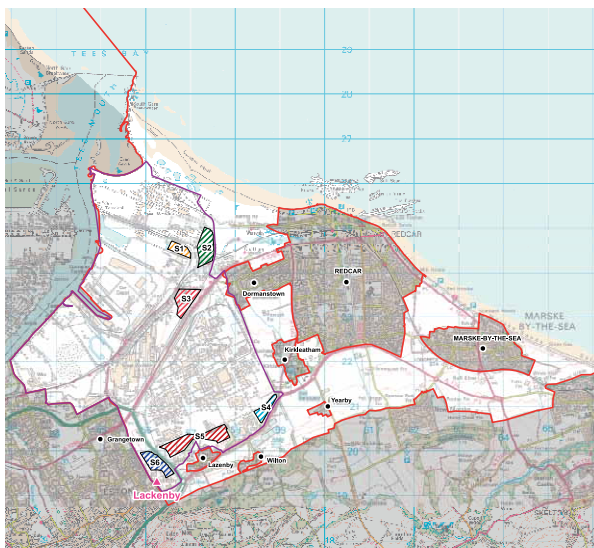
Following selection of the converter station sites an Environmental Impact Assessment (EIA) will be undertaken which will consider a range of subjects, including impacts on the landscape, noise, ecology and residential amenity. The EIA and engineering assessments, as well as further consultation with landowners, will all contribute to the converter station design and mitigation measures including appropriate landscaping.

National Grid substations

At least two of the Dogger Bank Teesside projects are likely to connect into the existing Lackenny substation, near Eton. At this stage it is not known precisely where the other two projects will connect, although they may connect to a new 400kV substation that National Grid will build to upgrade an existing facility in Teesside. The location of this new substation is not yet known but it is likely to be within the area that Forewind has identified as the converter station site search envelope.

National Grid is responsible for acquiring the necessary consents and undertaking work at its own substations to connect Dogger Bank Teesside to the national grid. Called enabling actions, Forewind will consider these works in its EIA for Dogger Bank Teesside. National Grid has not yet carried out the detailed engineering assessments needed to identify the enabling actions but Forewind will aim to include details in future consultation materials.

Six converter station sites and cable area

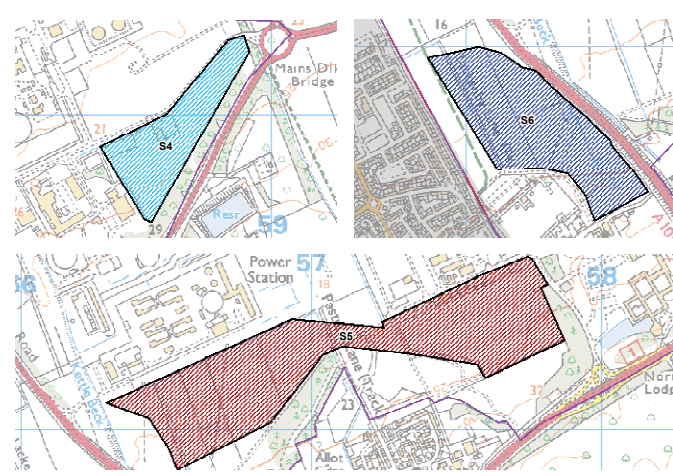
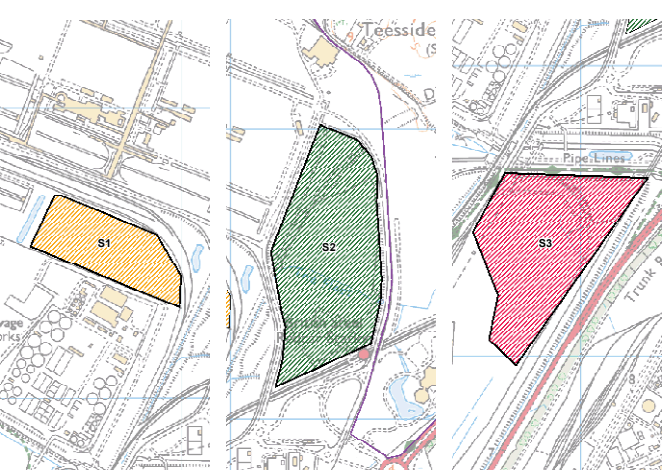


Legend

- Settlement
- Lackenny National Grid substation
- Converter station site search envelope
- Teesside scoping envelope

Shortlisted converter station sites

- S1
- S2
- S3
- S4
- S5
- S6
- Outside of scoping envelope



Onshore cable routes

Dependent on landfall

Due to the uncertainty over the precise sites of the landfall(s) and converter stations, onshore cable route(s) have not yet been identified.



Indicative cable area defined

Although the onshore cable route(s) have yet to be defined, an indicative cable area – including the preferred landfall area and encompassing six short-listed converter station sites – has been identified.

The indicative cable area takes into account the features and constraints that were identified in the characterisation of the onshore study area, including known archaeology and residential zones.

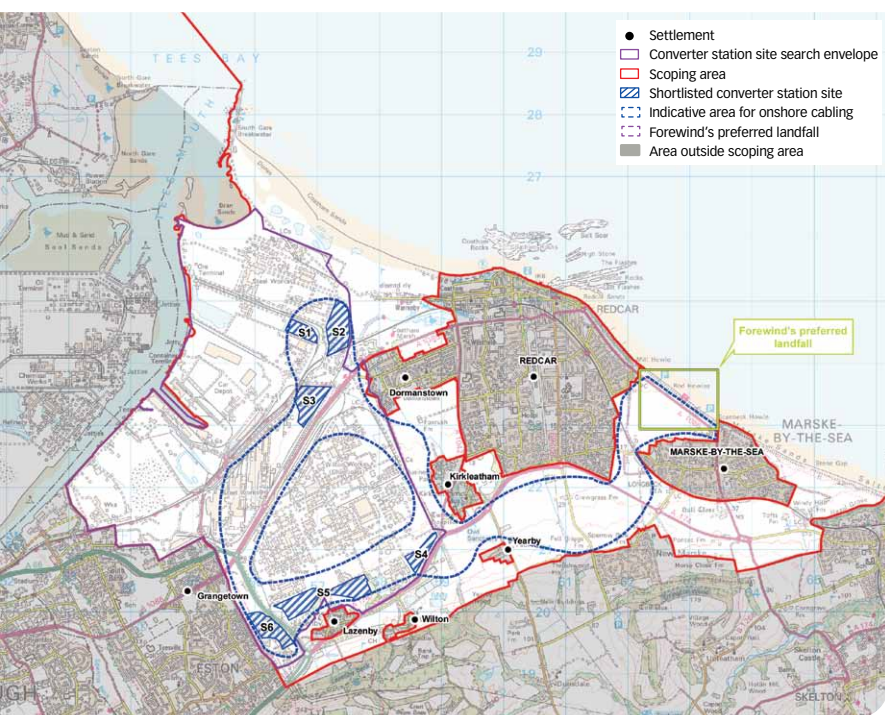
The final cable route(s) are likely to be located within the indicative cable area, but may not be if the landfall area or converter station sites change, or if the results of surveys and stakeholder feedback suggest that they would be better located elsewhere.

The proposal is to install underground cables, underground cable joints, temporary construction compounds and temporary haul roads. A design decision was made early in the process to rule out the installation of any new overhead power lines. Following the construction period, the construction areas would be reinstated and returned to their former use.

The cables from the landfall(s) to the converter stations may be installed in one route or in up to four separate routes. The number of cable routes will depend on the number of converter station sites and the location of the National Grid substations. Forewind will refine the cable route(s), through further surveys, assessments and stakeholder feedback.

Please let us know if you have any information that you think could help us refine the onshore cable route(s).

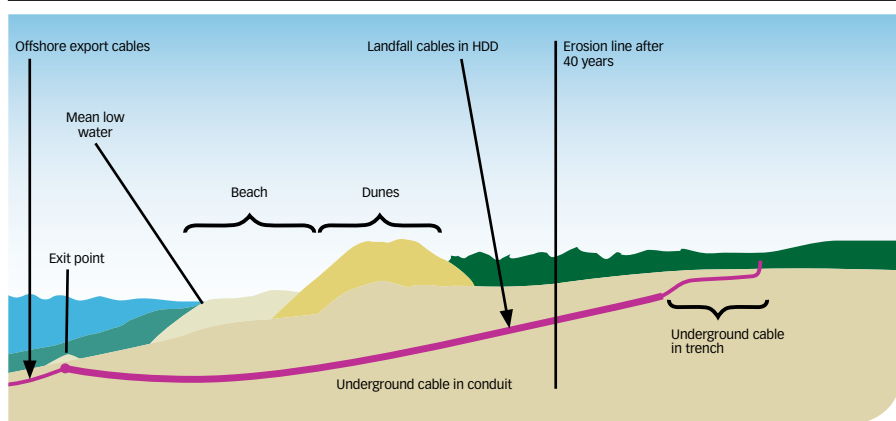
Indicative cable area



Indicative cable trench layout

- Cable trenches
- Temporary haul roads
- Temporary spoil heaps

Diagram of horizontal directional drilling (HDD) at a landfall



The EIA process is iterative and will evolve as the survey work progresses and as Forewind's understanding of the existing environment and of the assessment of potential effects develops. Forewind will engage with a full range of statutory and non-statutory consultees during the EIA process to ensure agreement with our approach and methods and to discuss our results.

Forewind will contract a number of technical specialists to carry out the environmental surveys and assessments on a range of subjects including:

- coastal erosion
- flora and fauna, including birds
- landscape and visual effects
- noise
- archaeology
- tourism and recreation
- geology
- shipping and navigation
- commercial fishing
- marine life
- impacts on aviation and military interests.

As the development progresses, Forewind will from time to time make Preliminary Environmental Information (PEI) available to stakeholders to inform the consultation process and keep stakeholders up-to-date with the development. Please ask the Forewind representatives here today what information is currently available, how you can get hold of it and how you can input into the EIA process.

The final Environmental Statement (ES) will be a comprehensive presentation of the development's potential environmental effects, both adverse and beneficial – during its construction, operation and decommissioning phases. This document will be submitted with the application for consent and will be made publicly available. A non-technical summary of the Environmental Statement will also be made freely available at this time.



Stakeholder engagement

We welcome your feedback

Before the formal consent application is submitted for this project, there will be a series of consultations with local communities as well as with statutory and non-statutory stakeholders including the Local Authorities, landowners and the fishing community.

Community consultation events such as this one will be advertised in the local media and also on the Forewind website. In addition, we will produce newsletters and fact sheets to provide updated information as the development progresses.

In parallel with the consultation undertaken with the local community, and landowners directly affected, Forewind will engage with the local, national and international fishing communities to ensure they are up to date with the development proposals and are also given an opportunity to provide input on their key issues.

Forewind will submit a consultation report with its application. This will show who has been consulted and demonstrate that, where possible, this feedback has been considered in the development of the project.

For more details on how Forewind will consult the local community on each project, you can refer to the project's Statement of Community Consultation (SOCC).

We welcome your feedback and input at any time, however, the Planning Act does allow us to set deadlines for certain consultations to help us effectively manage the process. These timeframes and deadlines will be advertised.

There are several ways for you to get in touch with the project team between consultation events, as follows:

You can respond to Forewind via:

Website	www.forewind.co.uk
Email	info@forewind.co.uk
Free phone	0800 975 5636
Post	Freeport ISLY-HKQK-HEBR Forewind Davidson House Forbury Square Reading RG1 3EU

Fisheries liaison

Forewind believes that long-term coexistence – the joint presence of both offshore wind development and fishing industries on Dogger Bank – can, and should, be achieved. Effective and meaningful consultation – with the aim of avoiding or reducing impacts – is integral to achieving sustainable coexistence.

This includes: endeavouring to understand potential concerns and objections; maintaining a productive working relationship with all fishing stakeholders and providing necessary information to allow them to work safely, utilising sources of fisheries information that will contribute to the Environmental Impact Assessments, and complying with existing guidelines in respect to fisheries liaison.

A Fisheries Liaison Plan (FLP) explaining how Forewind proposes to consult with fishermen throughout its broader development objectives has been produced and copies are available at this event or to download at www.forewind.co.uk.





**DOGGER BANK
TEESSIDE A & B**

**March
2014**

Consultation Report

Appendix D.13

Freepost comment card that was available at the public exhibitions

Doc.No. F-STL-RP-001

Application Reference 5.1.4



DOGGER BANK
TEESSIDE

Freepost
card

If you have any questions
or comments about Dogger
Bank Teesside, please
use this freepost card in the
space available.

Name:

Comments:

Contact details:



FREEPOST RSLY-HKGK-HEBR
FOREWIND
DAVIDSON HOUSE
FORBURY SQUARE
READING
RG1 3EU



**DOGGER BANK
TEESSIDE A & B**

**March
2014**

Consultation Report

Appendix D.14

Press adverts and articles in relation to community consultation events

Doc.No. F-STL-RP-001

Application Reference 5.1.4

Forewind Dogger Bank Teesside Community Consultation Event

Forewind, developer of the Dogger Bank offshore wind farm zone, invites you to a community consultation presenting proposals for the next stage of development: Dogger Bank Teesside.

Dogger Bank Teesside will comprise up to four offshore wind farms, each with a maximum generating capacity of 1.2GW. It is proposed to connect into the national grid at two sites in Teesside.

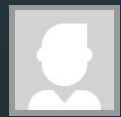
Located 156km off the coast of Teesside, the wind farms will comprise onshore and offshore export cables, onshore converter stations and other associated infrastructure.

These are the first consultation events in relation to Dogger Bank Teesside. Additional details about the community consultation process for Dogger Bank Teesside can be found in the Statement of Community Consultation which is available on the Forewind website and at local libraries and community venues along with consultation documents. The deadline for responses to this consultation is Friday 22 June 2012.

Event details

Date	25 May 2012 11:00 – 17:00
Venue	Redcar Central Library
Cost	FREE
URL	http://www.forewind.co.uk
Email	info@forewind.co.uk
Phone	0800 9755636

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NEWS

Consultation events in east Cleveland ahead of offshore wind farms plan



By Graeme Hetherington

8:00am Saturday 19th May 2012 in [News](#)

DETAILS of plans for what could be one of the world's largest offshore wind farms will be revealed at a series of consultation events.

Forewind, a development partner for the Dogger Bank offshore wind farm zone, has organised three events in the east Cleveland area to show residents how the project will be connected to the mainland.

The company has signed an agreement with the National Grid for two grid connections for the four wind farm sites, about 80 miles east of the mouth of the Tees, making it the nearest river to the development.

Subject to the results of technical studies, indications are that both connections could potentially be located at an existing National Grid substation site in Lackenby, near [Redcar](#).

A company spokesman said: "We would encourage everybody to come along and inspect the plans during the three consultation events.

"They are the first in relation to Dogger Bank [Teesside](#) and will be held at locations near the proposed landfall locations and onshore cable routes. They are part of a wider consultation process we will undertake with all stakeholders including statutory bodies, landowners and local authorities."

Redcar MP Ian Swales has had a meeting with the company to discuss the proposals before they go on public display.

He said: "I was pleased with the assurances Forewind gave me about their respect for the local area and for residents.

"They are obviously thinking carefully about the location of where they bring the cable ashore and where they build the substations.

"I confirmed that rumours regarding the Headlands in [Marske](#) are completely false.

The possible locations are not in built-up areas.

"I will continue to monitor this project and speak to the company in order to ensure that nobody is adversely affected by this exciting development.

I hope residents will also take part in the forthcoming consultation process."

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MOST POPULAR

Keyword: Forewind

The first consultation event takes place at Kirkleatham Museum, near Redcar, on Thursday, from 2pm to 8pm.

On Friday, it moves to Redcar central library, Kirkleatham Street, from 11am to 5pm, with the final session taking place at Lazenby Village Hall, High Street, between 11am and 5pm on Saturday.

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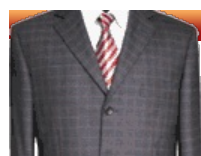
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Benefits blowing our way



THE public will soon have their say on plans for the world's largest windfarm, directly off Teesside's coast. So what's in it for our economy, asks KELLEY PRICE?

THERE was shipbuilding, then oil and gas – now wind power is the third massive wave of marine industry headed for Teesside, renewables chiefs claim.

They believe Dogger Bank, potentially the world's largest windfarm, can bring with it heavy in-

dustrial activity on a scale not seen for 50 years.

Forewind, development partner for the Dogger Bank Zone, has announced a series of consultations for its second phase of development - Dogger Bank Teesside.

Dogger Bank is a giant sandbar at least 156 kilometres off the East Coast. The latest phase could in-

clude up to 1,600 turbines.

But supply chain bosses have warned Teesside companies won't be spoon-fed orders if they sit back



and wait for the nod from developers.

And they say frontline organisations have a responsibility to engage early and feed work down through the supply chain to stimulate the economy.

They have urged companies that might not associate themselves with offshore wind, from caterers to office supply firms, to realise the potential.

"This is huge," says John MacAskill, business development manager for TAG Energy Solutions.

"Dogger Bank is about eight or nine times the size of all the offshore wind developments in the UK to date.

"And it's all directly out to sea from Teesside. We are the closest economic area.

"If businesses can present themselves to meet developers' requirements, there is every chance they can win work.

"There is a thirst to access local services, the right ones bring cost benefits to developers but companies in the North-east have to understand what services developers need.

"It's not a one-way street.

"We have to engage actively, not sit back and wait, otherwise foreign companies will come in.

"The scale is utterly enormous.

"We are looking at 35-40 years of economic activity. Construction will take anything up to 10 years plus, while operation will be 25 years.

"A school-leaver now could spend his or her entire career in this sector.

"Frontline organisations like ourselves, JDR Cables, DeepOcean (formerly CTC Marine) – we've a responsibility to engage early and generate economic activity in supply chains.

"We are incredibly excited, it's a fantastic opportunity for us and other companies in the sector.

"This hasn't come along since the early days of oil and gas and prob-

ably won't come around again for another 50 years.

"This region was the first to build ships, then submersibles and rigs, now there's a third wave of marine activity.

"We excelled then and we can excel again.

"It's a process. We welcome these types of consultation events, developers are taking the time to understand the need to speak to local businesses."

The first orders for renewables are starting to come from TAG's £20m Haverton Hill monopile foundations factory, which has the capability to deliver up to 100,000 tonnes of steel monopiles a year.

A spokesperson for **Forewind** said: "There's potential for jobs during construction, depending on where components are fabricated, and longer term for operations and maintenance.

"There will be a lot of local employment opportunities. It's potentially big news for local firms.

"These consultations are the first chance local people will have had to see the plans and have some input. We're hoping as many people as possible can come along."

THE FACTS

FOREWIND - the development partner for Dogger Bank, a consortium made up of four global energy companies, RWE, SSE, Statoil and Statkraft.

DOGGER BANK - a giant sandbar 125 to 290 kilometres off the East Coast of England, measuring around 260 km in length.

With a similar area to North Yorkshire, Dogger Bank is the largest of the nine windfarm zones in the Crown Estate's Round Three development phase. It's also the shallowest - ranging from just 18 to 63 metres in depth.

Up to 1,600 turbines are planned for Dogger Bank Teesside, the second stage of development. Enough electricity for 3.6 million British homes will be generated.

Dogger Bank Teesside will connect into the national grid at the existing Lackenby substation near Eston and potentially at one other new substation on Teesside.

Consultations will be held at the following locations:

■ Kirkleatham Museum, Redcar on Thursday, May 24 from 2-8pm
■ Redcar Central Library, Redcar & Cleveland House, Kirkleatham Street, Redcar on Friday, May 25 from 11am-5pm
■ Lazenby Village Hall, High Street, Lazenby, on Saturday May 26 from 11am-5pm







Your say

Just ticking the boxes

FOREWINDS has advertised its proposed consultation events for their Dogger Bank offshore windfarm project.

This massive project and its construction will affect communities in Redcar and Cleveland, especially Lazenby, who could end up with a 100ft brick convertor station built at the back of the village on Sembcorp land at Wilton Site.

What the communities of Lazenby, Eston and Whale Hill also need to know is there will be a need for more/larger pylons for this project. Forewinds consultation events are advertised that residents have to make a pre-arranged appointment with them, and they are allocated on half-hour one-to-one sessions, so for example in Lazenby village today, the consultation is from 9am to 3pm, half-hour sessions, so one Forewind representative will be able to see 12 residents in six hours. Consultation, no, only a ticking the box exercise for themselves. Forewinds should have the courage to hold public meetings to speak to the communities and answer their questions.

ANN HIGGINS, Chairperson Eston Residents Association





Wind farm consultation

CONSULTATION sessions are to begin for Dogger Bank Teesside - four offshore wind farm projects more than 150 kilometres off the Teesside coast with a generating capacity of up to 4.8GW.

Forewind, development partner for the Dogger Bank Zone, potentially the world's largest wind energy project, said the three consultation events will be held at locations near the proposed land-fall locations and onshore cable routes. They are part of a wider

consultation process Forewind will undertake with all stakeholders including statutory bodies, landowners and local authorities.

The dates are:

Kirkleatham Museum in Redcar on Thursday May 24 from 2pm-8pm

Redcar Central Library on Kirkleatham Street on Friday May 25 from 11am - 5pm

Lazenby Village Hall on High Street on Saturday May 26 from 11am - 5pm



Teesside skills go worldwide

A MULTI-million pound pipeline of big energy projects is taking shape just off our shores...

But as this map reveals, Teesside's skills in the offshore sector are traversing all four corners of the globe.

It shows just a handful of the major projects and markets the area's firms are winning work for - and proves Teesside talent is a truly global export commodity.

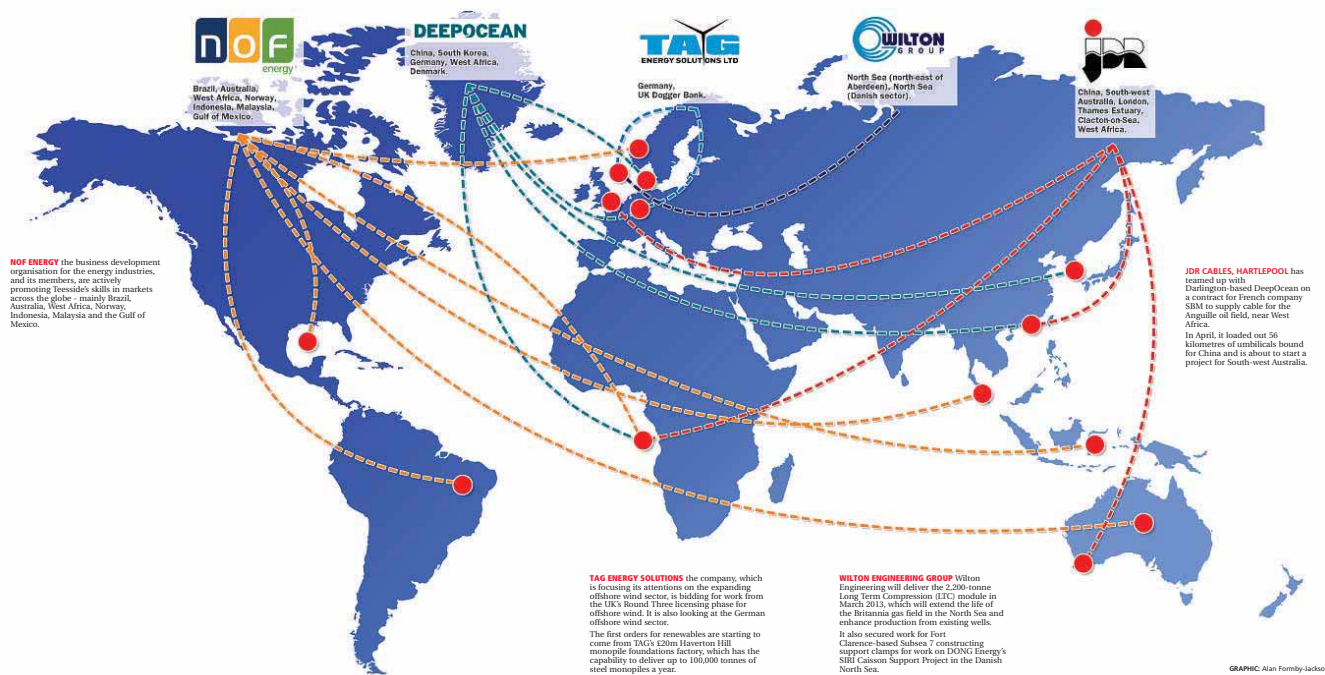
Key players are clinching millions of pounds worth of contracts in the oil, gas and emerging offshore renewables sectors worldwide.

Firms are setting their sights on Asia, Brazil and the Australian markets to name just a few.

From North Sea oil and gas to Dogger Bank, the UK's largest windfarm zone situated right off the coast of Teesside, opportunities are rife - and can only increase, according to business chiefs.

PHOTO







Wind project worries allayed

FEARS a massive wind farm off the North-east coast might mean disruption at Marske have been dispelled, Redcar MP Ian Swales says.

Lib Dem Mr Swales was speaking after a meeting with Forewind - the company behind the huge Dogger Bank wind farm - to discuss how the project will affect the local area.

The wind farm will be more than 150km off the Teesside coast, with plans to bring an underground cable ashore and construct substations to convert the power for the National Grid.

But Mr Swales has welcomed an assertion the cabling won't come ashore in a built-up area.

He said: "I was pleased with the assurances Forewind gave me about their respect for the local area and for residents. They are obviously thinking carefully about the location of where they bring the cable ashore and where they build the substations.

"I confirmed that rumours regarding the Headlands in Marske are completely false - the possible locations are not in built-up areas.

"I will continue to monitor this project and speak to the company in order to ensure nobody is adversely affected by this exciting development. I hope residents will also take part in the forthcoming consultation process."

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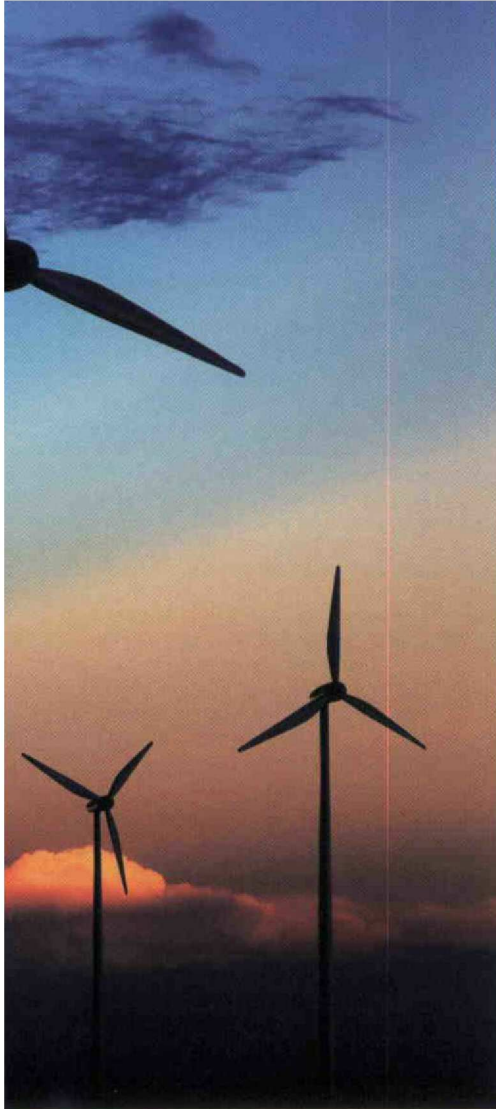


Re-energising the Region

The dynamic Liberal Democrat Member of European Parliament for the North East, Fiona Hall divides her time between Brussels, Strasbourg, London and everywhere in the North East from Berwick to Redcar. Somehow she found time to speak with Matthew Ketchell who wanted to know how she keeps so motivated

When Fiona Hall moved to the North East in 1980 she didn't see herself as a politician at all, but her involvement in the campaign against building a nuclear power station at Druridge Bay led her to a career in party politics. 'I was enthralled by what a beautiful place Northumberland was and I didn't want to see it under threat in any way, so I became involved in the campaign to stop

the government building a power station. I wasn't really interested in politics at that point; I saw myself as an environmental campaigner.' Working part time as a teacher, Fiona campaigned for a number of years, but after the 1992 election failed to produce the changes the campaign needed she realised that working in politics would give her a stronger platform from which to make a real difference. 'I was very impressed by the work



of the Liberal Democrats locally. I listened to what they said, looked at their policies and realised this was something I agreed with, so I joined the New Liberal Democrats as my New Year's resolution on 1st January 1993.'

Fiona began working as a press / political officer to Lembit Öpik MP and Richard Livsey MP between 1997 and 1999, then as a parliamentary researcher and press officer to Rt Hon Alan Beith

MP. In June 2004, aged 48, she was elected as the Liberal Democrat Member of European Parliament for the North East and was re-elected in 2009. The European Parliament operates under a proportional representation system so the North East actually has three MEPs: one Labour, one Conservative and one Liberal Democrat – Fiona. Having served under MPs and worked as an MEP in Europe for eight years now, how does she find the contrast between Westminster and Brussels? 'For a start the constituency is much bigger, it's the whole of the North East and there are 20 odd Westminster constituencies in that area. In other ways being an MEP is similar to being an MP. I find that people write to me with problems which are not necessarily anything to do with European Parliament, but I welcome contact because that's really important as a politician, to have that connection with the electorate. I don't say "Oh well, that's not European so I'm not going to touch it." If it's something I can raise with a Minister in London in order to get a solution for the person, then I will certainly do so.'

Having developed a political career on the back of her work as an environmental campaigner, issues like renewable energy and climate change remain very much on Fiona's agenda. As a member of the Committee on Industry, Research and Energy, Fiona is well placed to evaluate the region's green fingers. 'I think the North East is doing fantastically on new renewable technology, which is definitely the way forward in tackling climate change but could also potentially be the renaissance of the North East in terms of jobs. Look at places like Narec, which is the national centre of excellence for renewable technologies, and everything that is being developed in relation to offshore winds – there's huge potential.'

Fiona points to Dogger Bank off the North East coast as an example. The site, a large sandbank in a shallow area of the North Sea 62 miles off the coast, is equivalent to the size of North Yorkshire and was granted a licence to develop an on-site windfarm in 2010. This area has the potential to develop up to 9 gigawatts of power which, if achieved, would reduce CO2 emissions by 13.7 million tonnes per annum. Construction is scheduled to start in 2014, at the earliest, and could create jobs for life. 'We have an offshore background in the North East so there's a great potential to create new green jobs here and bring together the region's history and

traditional capacities in engineering and developing technology which enables us to get our energy without creating emissions.' With Nissan producing the Leaf in Sunderland and the first Hitachi high speed trains due to roll off the production line at Newton Aycliffe in 2016, the North East seemingly have transport covered too. 'It's massive what we can do here,' enthuses Fiona.

As well as her environmental work, Fiona has taken part as an MEP observer in a number of EU election observation missions that have taken her to places such as Togo and Mozambique. She has recently been invited to be Chief Observer at elections in East Timor at the beginning of July where they are celebrating ten years of renewed independence, but the country still acknowledges there's lots to do. 'I'm fascinated by how elections work and what you have to do to make sure they go smoothly. It's the nitty gritty of democracy, I really believe that democracy matters. It's difficult for a country to go forward if it's not listening to what people want on the ground – that democracy is really fundamental. The election process isn't everything but you have to get that right, if you can't get that right then you have a flawed process. It's really important, I see it as a way of working on the detail of democracy.'

'A short term ambition is to see the North East emerge from this economically challenging time and find ways of using European funding to grow the economy and create new jobs'

The European Union arranges election missions in countries where there has been a move towards democracy but it still hasn't been firmly rooted. 'The places where election missions make a difference are where there is a genuine attempt to have fair elections, but possibly it's not entirely secure or there are technical inadequacies.' This is where observation missions can help. The EU only attend elections by invitation but that invitation is a commitment from the country that proves they want to do things properly. 'It's a very positive thing. A lot of the countries that have observation missions have had conflict in the past and therefore it's particularly important that things continue on a smooth path.'

Fiona hasn't lost sight of the need to tackle climate change which, because of the economic crisis,

has slipped down the list of priorities in recent years. When she first became involved in politics people were just beginning to talk about climate change, and she tells me that a lot of the work she does today is directly or indirectly related to it. 'The need to tackle climate change hasn't gone away, it's there in the background and remains the big global strategic challenge. If we don't keep global warming to less than two degrees we'll suffer changes to the environment that will be so extreme they'll be very difficult and very costly to deal with. The whole move to renewable technology, towards saving energy – it's very important for people in terms of cutting fuel prices and not having to spend more money paying energy bills, but it's also massively important in terms of not wasting energy and not creating CO2.'

With a packed political agenda and the interests of an entire region to consider, it is a job in itself balancing a busy career with home life. 'It's not easy, my daughter is in London and I have a new grandson there who's quite poorly. He was born very prematurely so I have to fit in spending time with him and supporting my daughter, so it's a bit of a juggling act, but I think that's the same for working families everywhere, whatever your job.' She likes to get back to the region every weekend and tends to spend four days in Parliament and three days in the North East. Most of her time is spent in Brussels but she is conducting this interview from Strasbourg where the Parliament sits one week a month. 'It's one of the reasons why the job is a bit complicated because I live in North Northumberland and have some meetings in London, especially with the Lib Dems being in Government, and then the Parliament sits in Strasbourg and in Brussels.' As an energy conscious MEP one of Fiona's latest campaigns is to persuade the European Parliament to have a single seat. At present the Parliament sits in Strasbourg for historical reasons that date back to the Second



World War. 'That made sense in the late 1950s but with 27 member states now, it doesn't make sense to be in two places. It wastes a lot of money and energy going between the two.' A single seat would doubtless make Fiona's job a little less hectic, 'It would but that's not the main point! It would be nice though, as that's an extra bit of travelling I can do without.'

'With a packed political agenda and the interests of an entire region to consider, it is a job in itself balancing a busy career with home life'

Living in Northumberland is a big motivational factor for Fiona to force through her environmental policies and protect the beautiful areas in the North East and Europe. 'I love where I live, I think it's a beautiful place but one of the things that I've had the privilege of learning as an MEP for the region is just how beautiful the whole region is. There are parts which I still go to and discover new corners, places like upper Weardale for instance, which are extremely attractive. That's one of the delights, discovering just how varied and how beautiful and interesting historically different parts of the region are.'

Fiona tells me that she doesn't focus too much beyond the next two years as within that period there is a huge amount to do. A short term ambition is to see the North East emerge from this economically challenging time and find ways of using European funding to grow the economy and create new jobs. 'That's really what I want to see most of all in the North East. On the wider stage I would like to see continuing progress on the issue of energy and transforming energy suppliers to become low carbon renewable suppliers: sustainable energy that isn't contributing to climate change.' Listening to Fiona it seems the North East is very much contributing to the bigger picture and setting a great example for future generations to follow.

www.fionahall.org.uk



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Plans unveiled for Dogger Bank turbine development

by John Hill, *The Journal* | May 9 2012

TEESSIDERS will get the chance to see the early proposals for the latest phase of the huge Dogger Bank wind energy development this month.

Dogger Bank Teesside is the second phase of the Dogger Bank Zone, and will consist of four offshore wind farm projects sited at least 156km from the Teesside coast.

The three consultation events have been arranged by Forewind, the consortium of four major international energy companies which own the right to develop the Dogger Bank Zone.




The entire Dogger Bank Zone stretches over an area of 8,660 square kilometres, roughly the size of North Yorkshire. It has the potential to supply up to 10% of the UK's electricity demand, or around 13GW.

The Dogger Bank Teesside element of this development is expected to be able to generate up to 4.8GW. This means it could produce up to 17 Terawatt hours a year of green energy, equivalent to the amount used in 3.6m British homes. Forewind is holding a series of events as part of a wider consultation process with landowners, local authorities and statutory bodies.

The events are being held in places that are near the onshore cable routes and landfall locations. The development would connect to the grid at the Lackenby substation near Eston, and potentially at another substation that may be placed on Teesside. Details are available at www.forewind.co.uk and at local public libraries and council offices.

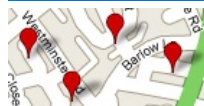
Dogger Bank Teesside will feature up to 1,600 offshore wind turbine generators, as well as a series of cables, converter stations, and other infrastructure. Forewind envisages there may be noise and disruption during construction, as well as increased marine traffic and some affect on the view beyond that, although it has pledged to minimise disruption "wherever it is reasonably feasible".

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Deloitte.



BUILDING THE LINE: A pylon goes up near Nunthorpe in 2002

REVOLT: RECALLED AND RENEWED

TWENTY years ago there were extensive public inquiries into the National Grid's planned 400 kilovolts (kV) powerline from Teesside to York.

Unprecedented numbers of landowners refused to grant voluntary wayleaves which would have enabled the grid to access their land.

The public opposition group Revolt worked with local authorities in representing objections at inquiries and hearings over several years.

Now it's coming up again, as the 15-year compulsory wayleaves imposed on landowners from 1998 are up for renewal from March next year. Landowners are considering their options.

Renewable energy policy increasingly places heavier demands on the grid. It would seem unrealistic now to expect to have this line removed, buried or re-routed. There may,

however, be grounds for complaint about practical matters such as entry, notice, identification, tree lopping, noise and so on.

There is also the threat of yet more powerlines. A new "Dogger Bank Teesside" converter station is proposed, to land some four gigawatt of offshore wind power from the North Sea. This will need a new 400kV National Grid substation (as well as the converter station) in an undisclosed location and most likely new 400kV lines in North Yorkshire.

That could be avoided if more power were landed at Humberside.

Revolt would be pleased to hear from all concerned at revolt.co.uk and may convene a local public meeting to exchange views.

Mike O'Carroll,
chairman of Revolt,
Welbury, North Yorkshire.





Consultation events cover offshore wind farms plan

By Graeme Hetherington

graeme.hetherington@nne.co.uk

DETAILS of plans for what could be one of the world's largest offshore wind farms will be revealed at a series of consultation events.

Forewind, a development partner for the Dogger Bank offshore wind farm zone, has organised three events in the east Cleveland area to show residents how the project will be connected to the mainland.

The company has signed an agreement with the National Grid for two grid connections for the four wind farm sites, about 80 miles east of the

mouth of the Tees, making it the nearest river to the development.

Subject to the results of technical studies, indications are that both connections could potentially be located at an existing National Grid substation site in Lackenby, near Redcar.

A company spokesman said: "We would encourage everybody to come along and

inspect the plans during the three consultation events.

"They are the first in relation to Dogger Bank Teesside and will be held at locations near the proposed landfall locations and onshore cable routes. They are part of a wider consultation process we will undertake with all stakeholders including statutory bodies, landowners and local authorities."

Redcar MP Ian Swales has had a meeting with the company to discuss the proposals before they go on public display.

He said: "I was pleased with the assurances Forewind gave me about their respect for the local area and for residents."

"They are obviously thinking carefully about the location of where they bring the cable ashore and where they build the substations."

"I confirmed that rumours regarding the Headlands in Marske are completely false. The possible locations are not in built-up areas."

"I will continue to monitor this project and speak to the

company in order to ensure that nobody is adversely affected by this exciting development. I hope residents will also take part in the forthcoming consultation process."

The first consultation event takes place at Kirkleatham Museum, near Redcar, on Thursday, from 2pm to 8pm. On Friday, it moves to Redcar central library, Kirkleatham Street, from 11am to 5pm, with the final session taking place at Lazenby Village Hall, High Street, between 11am and 5pm on Saturday.



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Consultation events in east Cleveland ahead of offshore wind farms plan



By Graeme Hetherington

8:00am Saturday 19th May 2012 in [News](#)

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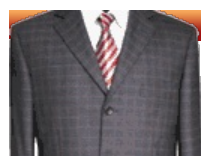
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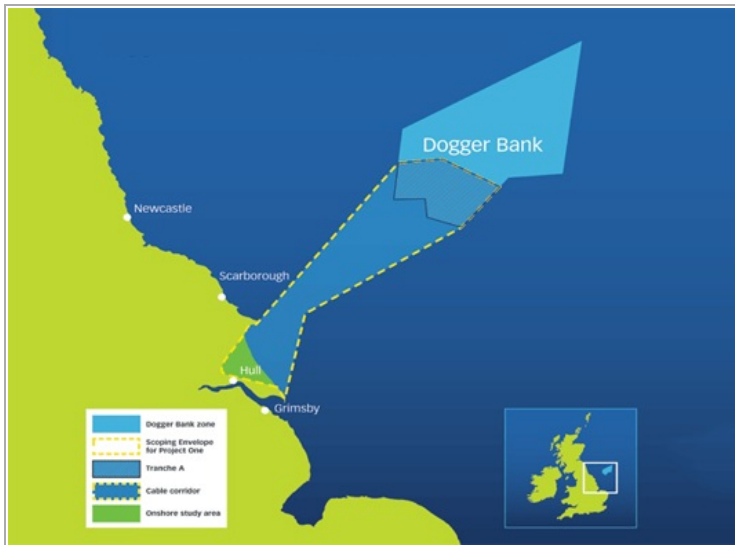
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UK: Forewind Announces Community Consultation for Dogger Bank Teesside

Posted on May 8th, 2012 with tags [Announces](#), [Bank](#), [community](#), [consultation](#), [Dogger](#), [europe](#), [Forewind](#), [News by topic](#), [TEESSIDE](#), [UK](#).



Forewind, development partner for the Dogger Bank Zone, potentially the world's largest wind energy project, announces its first community consultation events in relation to its second stage of development: Dogger Bank Teesside.

Dogger Bank Teesside is planned to comprise up to four offshore wind farm projects located at least 156 kilometres off the Teesside coast and with a total generating capacity of up to 4.8GW.

The three consultation events will present proposals for the development, which could potentially generate almost 17 Terawatt hours (TWh) of green power every year, equivalent to the electricity used annually by approximately 3.6 million British homes.

This series of events is the first in relation to Dogger Bank Teesside and will be held at locations near the proposed landfall locations and onshore cable routes. They are part of a wider consultation process Forewind will undertake with all stakeholders including statutory bodies, landowners and local authorities in accordance with sections 42 and 47 of The Planning Act 2008.

The local community is encouraged to attend at least one of the events to view the proposals, speak to members of the Forewind team and submit feedback.

A Statement of Community Consultation with additional details about the full consultation process for Dogger Bank Teesside has been published on Forewind's website and is available for viewing at local public libraries and council offices.

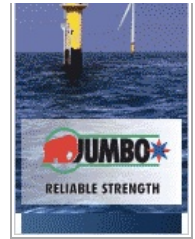


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UK: Forewind Holds Dogger Bank Teesside Consultation Events This Month

Posted on May 9th, 2012 with tags [Bank](#), [consultation](#), [Dogger](#), [europe](#), [Events](#), [Forewind](#), [holds](#), [month](#), [News by topic](#), [TEESSIDE](#), [this](#), [UK](#).



Three consultation events have been arranged by the Forewind consortium to give the Teesside public a chance to see the early proposals for the latest phase of the Dogger Bank development, according to the NeBusiness.

The events, scheduled for this month, will take place near the onshore cable routes and landfall locations. Forewind arranged wider consultation events with landowners, local authorities and statutory bodies, as apart of the process in question.

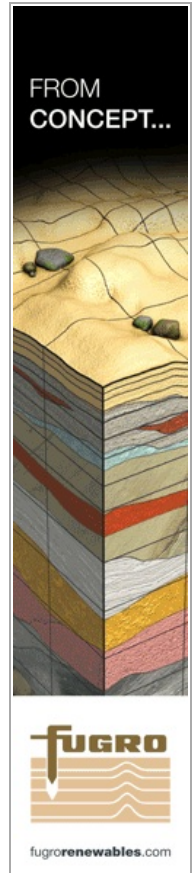
Dogger Bank Teesside will consist of four offshore wind farm projects located at least 156 km from the coast, with up to 1,600 wind turbine generators and other infrastructural segments. It embodies the 2nd phase of the Dogger Bank Zone, and it is expected to generate up to 4.8 GW of energy.

Forewind thinks there may be some disruption and increased marine traffic during the construction phase, but it guarantees to minimise disturbance wherever possible.



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Offshore WIND staff, May 9, 2012; Image: Forewind



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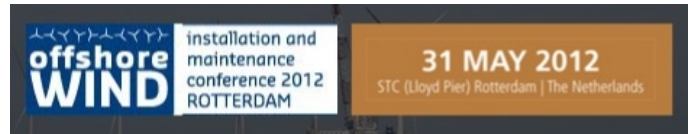
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UK: Redcar MP Discusses Dogger Bank Project with Forewind

Posted on May 21st, 2012 with tags [Bank](#), [discusses](#), [Dogger](#), [europe](#), [Forewind](#), [MP](#), [News by topic](#), [project](#), [Redcar](#), [UK](#), [with](#).



Ian Swales MP met with Forewind, the company behind the Dogger Bank wind farm, to discuss how the project will affect the local area.

The wind farm will be over 80 miles off the coast of Teesside and will therefore not directly affect residents. The plan is to bring a cable ashore underground and construct substations to convert the power to join the National Grid.

This supports the new wave of renewable energy industry in the local area, helping to boost the local economy and secure local jobs for the people of Teesside.

Commenting, **Ian Swales MP** said:

'I was pleased with the assurances Forewind gave me about their respect for the local area and for residents. They are obviously thinking carefully about the location of where they bring the cable ashore and where they build the substations.

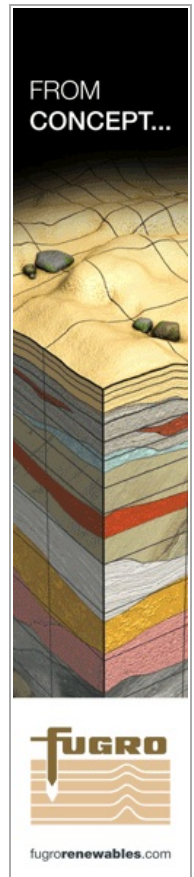
'I confirmed that rumours regarding the Headlands in Marske are completely false; the possible locations are not in built up areas.

'I will continue to monitor this project and speak to the company in order to ensure that nobody is adversely affected by this exciting development. I hope residents will also take part in the forthcoming consultation process.'



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Scarborough's port singled out as base for Dogger Bank operations

Major drives are under way to attract leading windfarm supply companies to the borough

NINA SWIFT

nina.swift@jpress.co.uk
@ninaswiftxxx

Major wind industry suppliers have expressed serious interest in securing the town as a strategic base for the world's largest off-shore wind farm.

Several national firms have earmarked the port, along with Whitby, as a key base for operations and maintenance activity which will service the offshore industry at Dogger Bank.

Although no contracts have yet been officially signed, Scarborough Council's deputy leader, Cllr Derek Bastiman, said it was an early indication both ports were set to play an integral role in the multi-billion pound development.

"We have several interested parties but because of commercial sensitivities we are not at liberty to say who they are.

"However, there are operators looking at both ports in a positive manner from an operational and maintenance point of view," said Cllr Bastiman, who is the authority's portfolio holder for strategic planning and regeneration.

Scarborough Council is hoping that both Scarborough and Whitby will become ideally located bases for the industry and has organised a series of events aimed at plugging an engineering skills gap.

Dogger Bank is located between 80 and 120 miles off the

North Yorkshire coast.

The development, which is expected to include about 2,600 giant turbines each up to 400ft tall, will stretch across an area equivalent to the size of North Yorkshire.

The first turbines are due to become operational in 2016.

A major drive to attract industry leaders to the area is currently under way and Cllr Bastiman is championing Scarborough and Whitby as ideal service bases.

It is hoped that by attracting this particular sector, there will be more long-term job opportunities in the area as the wind turbines are expected to have a minimum shelf-life of 25 years.

Cllr Bastiman said: "We would rather be in it for the long haul rather than short-term gain."

However, other ports are also trying to land the contracts and the councillor insisted he would be doing everything in his power to attract firms to both towns.

"The whole of the east coast is competing. That's why we have to go out and fight for what we get," he said.

This month he will address industry chiefs and Government Ministers at conferences in cities London and Leeds in a bid to promote the benefits of the two ports.

"It would mean a tremendous amount for both ports of Whitby and Scarborough," he

said.

"Logistically they are both closest to Dogger Bank and therefore offer the shortest steaming times.

"We are also in that fortunate position of having two ports in our borough.

"If conditions aren't suitable to go into one they can always go into another one. It's a two-pronged attack."

As well as attracting larger companies, Cllr Derek Bastiman is also hoping to be able to encourage local suppliers and manufacturers to become involved in the operation and maintenance side of the wind farm.

Local firms also playing a part

THE DALBY DERWENT

In April a family firm's dreams became reality when their new £1.2 million vessel sailed into Scarborough harbour.

Bob Mainprize Jnr and his wife Sharon celebrated the arrival of the Dalby Derwent, a custom-built catamaran which was commissioned by their company, Mainprize Offshore Ltd.

JOBS

The vessel, which will create between five and eight new jobs, will be used to transport workers and materials to and from wind farms. Its main role will be to take technicians to and from wind farm sites and deliver fuel and cargo.

"The east coast is competing.

We have to go out and fight for what we get."

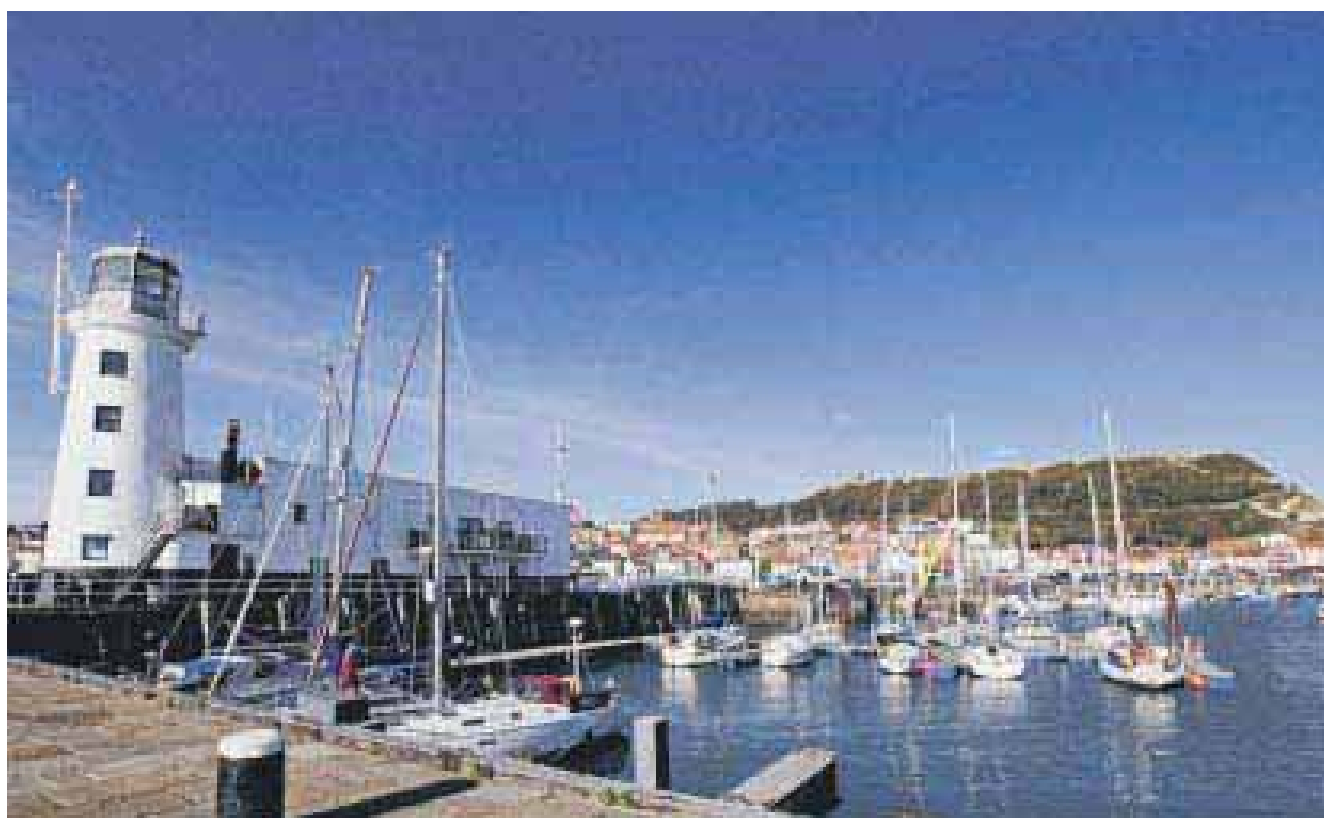
Cllr Derek Bastiman



Cllr Bastiman

There are operators looking at both ports





National firms are eyeing up the town's port as a strategic base servicing the offshore wind farm at Dogger Bank



Plans unveiled for turbine development

TEESSIDERS will get the chance to see the early proposals for the latest phase of the huge Dogger Bank wind energy development this month.

Dogger Bank Teesside is the second phase of the Dogger Bank Zone, and will consist of four offshore wind farm projects sited at least 156km from the Teesside coast.

The three consultation events have been arranged by Forewind, the consortium of four major international energy companies which own the right to develop the Dogger Bank Zone.

The entire Dogger Bank Zone stretches over an area of 8,660 square kilometres, roughly the size of North Yorkshire. It has the potential to supply up to 10% of the UK's electricity demand, or around 13GW.

The Dogger Bank Teesside element of this development is expected to be able to generate up to 4.8GW. This means it could produce up to 17 Terawatt hours a year of green energy, equivalent to the amount used in 3.6m

British homes. Forewind is holding a series of events as part of a wider consultation process with landowners, local authorities and statutory bodies.

The events are being held in places that are near the onshore cable routes and landfall locations. The development would connect to the grid at the Lackenby substation near Eston, and potentially at another substation that may be placed on Teesside. Details are available at www.forewind.co.uk and at local public libraries and council offices.

Dogger Bank Teesside will feature up to 1,600 offshore wind turbine generators, as well as a series of cables, converter stations, and other infrastructure. Forewind envisages there may be noise and disruption during construction, as well as increased marine traffic and some affect on the view beyond that, although it has pledged to minimise disruption "wherever it is reasonably feasible".





**DOGGER BANK
TEESSIDE A & B**

**March
2014**

Consultation Report

Appendix D.15

Newspaper adverts for the one-to-one sessions

Doc.No. F-STL-RP-001

Application Reference 5.1.4

News

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24-04-2013

Local community invited to discuss Dogger Bank Teesside

Forewind invites Teesside residents and members of the public interested to learn more about the Dogger Bank Teesside offshore wind development to a series of one-to-one discussions (Friday 17 and Saturday 18, May).

Dogger Bank Teesside will comprise four offshore wind farms, each with a maximum installed capacity of 1.2 gigawatts (GW) and located more than 160 kilometres from the coast. Together they could generate around 16 Terawatt hours per annum, or more than all the electricity needed by homes and industry in the North East.

The development's export cables are expected to connect to the national grid in Teesside, just south of the Tees Estuary.

The one-to-one sessions will be at venues near the proposed landfall between Redcar and Marske, along the onshore cable route and close to the planned converter station locations by Lazenby.

Forewind Stakeholder Manager Nikki Young said that the sessions will enable local people to ask any questions they may have about the development, including work done to select the proposed landfall, cable and converter stations sites as well as the environmental impact assessment.

"We would like to invite anyone interested in meeting us, to register their interest by Friday 10 May," she said. "Half hour slots will be allocated on a first come, first served basis and while sessions may also be booked at the venue on the day, availability cannot be guaranteed."

Since Forewind's first consultation in spring 2012, there have been a number updates to the wind farm proposals. Significant progress has been made on the landscape and visual assessment of the proposed converter stations, and surveys have been undertaken to gather noise data and geophysical information, and to take borehole samples.

"These one-to-ones will give people a chance to find out the latest information on the project in advance of the final consultation phase which is due later this year," she added. "Those not able make one of these discussions but with specific questions can contact us directly at anytime."

The session dates and locations are as follows:

Friday 17 May

9am-12pm	Zetland Park Methodist Church The Crescent Redcar Cleveland TS10 3AU
----------	--

4pm-7pm	Ings Farm Primary School Stirling Road Redcar Cleveland TS10 2JZ
---------	--

Saturday 18th May

9am-3pm	Lazenby Village Hall High Street Lazenby TS6 8DU
---------	--

Interested individuals can register via email to info@forewind.co.uk, Freephone on 0800 975 5636 or using the Freepost address: RSLY-HK GK-HEBR Forewind Davidson House, Forbury Square Reading RG1 3EU

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NEWS



Volunteers needed to spruce up Lily Park in Redcar



By **Graeme Hetherington**

2:50pm Thursday 25th April 2013 in [News](#)

FLOWER PLANTING: The Friends of the Lily Park in [Redcar](#) are appealing for volunteers to come along and help them with weeding and planting sessions to help them improve the park. Sessions take place on Fridays from 10am to noon and 2pm to 4pm as well as on Sunday mornings between 10a and noon. People can just turn up at the park, between Coast Road and Oak Road, to help or can call 01642-482132 for further information.

SHIP SOCIETY: The [Teesside](#) Ship Society is holding its next meeting at the Newport Settlement and Community Centre, St Paul's Road, Middlesbrough on Wednesday, May 15 at 7pm. The topic will be Shipping on the Tees presented by Ian Gordon.

WINDFARM SESSIONS: Forewind, developer of the Dogger Bank offshore wind zone, will hold a series of one-to-one discussions with local residents and members of the public interested to learn more about the Dogger Bank Teesside development on Friday, May 17 and Saturday 18. The first session takes place between 9am and noon at Zetland Park Methodist Church, The Crescent, Redcar on the Friday. The next takes place between 4pm and 7pm at Ings Farm Primary School, Stirling Road, Redcar with the last session taking place on the Saturday at Lazenby Village Hall, High Street, Lazenby, between 9am and 3pm.

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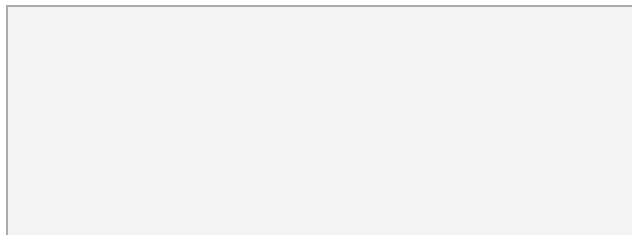
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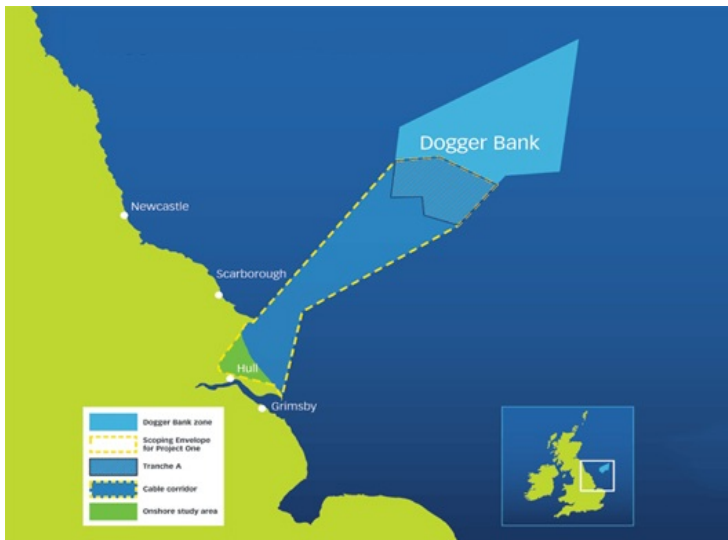
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UK: Forewind Invites Local Community to Discuss Dogger Bank Teesside

Posted on Apr 25th, 2013 with tags [Bank](#), [community](#), [discuss](#), [Dogger](#), [europe](#), [Forewind](#), [invites](#), [local](#), [News by topic](#), [TEESSIDE](#), [UK](#)



Forewind invites Teesside residents and members of the public interested to learn more about the Dogger Bank Teesside offshore wind development to a series of one-to-one discussions (Friday 17 and Saturday 18, May).

Dogger Bank Teesside will comprise four offshore wind farms, each with a maximum installed capacity of 1.2 gigawatts (GW) and located more than 160 kilometres from the coast. Together they could generate around 16 Terawatt hours per annum, or more than all the electricity needed by homes and industry in the North East.

The development's export cables are expected to connect to the national grid in Teesside, just south of the Tees Estuary.

The one-to-one sessions will be at venues near the proposed landfall between Redcar and Marske, along the onshore cable route and close to the planned converter station locations by Lazenby.

Forewind Stakeholder Manager Nikki Young said that the sessions will enable local people to ask any questions they may have about the development, including work done to select the proposed landfall, cable and converter stations sites as well as the environmental impact assessment.

"We would like to invite anyone interested in meeting us, to register their interest by Friday 10 May," she said. "Half hour slots will be allocated on a first come, first served basis and while sessions may also be booked at the venue on the day, availability cannot be guaranteed."



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Keyword: Forewind

Since Forewind's first consultation in spring 2012, there have been a number updates to the wind farm proposals. Significant progress has been made on the landscape and visual assessment of the proposed converter stations, and surveys have been undertaken to gather noise data and geophysical information, and to take borehole samples.

"These one-to-ones will give people a chance to find out the latest information on the project in advance of the final consultation phase which is due later this year," she added. "Those not able make one of these discussions but with specific questions can contact us directly at anytime."



Press release, April 25, 2013; Image: Forewind



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TEESSIDE A & B**

**March
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Consultation Report

Appendix D.15e

Lazenby Slips 1-2-1

Doc.No. F-STL-RP-001

Application Reference 5.1.4



With Compliments

Dear Resident,

We would like to draw your attention to the fact that members of the Dogger Bank Teesside project team will be available for “one to one” discussions about our proposals on Friday 17 and Saturday 18 of May. If you would like to meet with us, please reserve a slot in advance - full details are available in the article on page 3 of the newsletter. You can still contact us at any time, by one of the methods detailed on the back page of the newsletter.

Forewind Ltd. Davidson House, Forbury Square, Reading, RG1 3EU.
Reg. Address: 55 Vastern Road, Reading, Berkshire, RG1 8BU. Reg No: 06779245

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**DOGGER BANK
TEESSIDE A & B**

**March
2014**

Consultation Report

Appendix D.16a

Press release published on the Forewind website noting the feedback from public exhibitions and one-to-one consultation meetings

Doc.No. F-STL-RP-001

Application Reference 5.1.4



News

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05-06-2013

Teesside stakeholder communication sessions held

Teesside residents, business owners and community leaders were given the opportunity to find out the latest on Dogger Bank Teesside at a series of one-to-one consultation meetings, and at briefing sessions held in late May.

Members of the Forewind team were on-hand for MP-surgery-style consultation sessions, held at venues along the Coast Road and in the village of Lazenby. Local council representatives were invited to attend a tailored briefing session summarising the project while environmental groups were also encouraged to send representatives to an ecology workshop held at the same time.

The local residents who attended the one-to-one sessions were able to highlight any concerns they had at this point in the development, while Forewind team members listened to feedback which will be incorporated into the further planning of the wind farm projects.

The events were promoted in the Spring edition of Dogger Bank News and a Forewind press release, which invited interested stakeholders to attend, prompted articles to be published in the local press including the Evening Gazette and Northern Echo.

Whilst there was a lower than anticipated interest in terms of attendee numbers, Forewind nevertheless collected valuable information related to the proposed cable route and converter station sites, as well as ideas on mitigating the potential visual impacts.

These events were just one opportunity for members of the public to comment on the Dogger Bank Teesside projects. Later this year there will be a series of public exhibitions in Teesside which will give details of the proposals and enable input before the development consent application is submitted to the Planning Inspectorate.

Forewind does welcome feedback at any time and contact details can be found on the [Contact page](#) of this website.

The presentation given to the council representatives at their progress meeting can also be found on this website under the [Downloads](#) section.



**DOGGER BANK
TEESSIDE A & B**

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Consultation Report

Appendix D.16b

Letter sent to Lazenby Environmental Group providing the minutes of the meeting held on 31 July 2012

Doc.No. F-STL-RP-001

Application Reference 5.1.4

Mrs V Foulkes
Chair of the Lazenby Community Group
XXXXXXXXXXXXX
XXXXXXXXXXXXX
XXXXXXXXXXXXX
XXXXXXXXXX
XXXXXXXX

7th August 2012

Dear Mrs Foulkes

Forewind Ltd - Dogger Bank Teesside

Thank you for inviting us to meet with you last Tuesday and allowing us the opportunity to present details of our proposals. I hope you found the presentation informative; it was most helpful for us to find out more about the Environmental Group and to understand the nature of your concerns with the Dogger Bank Teesside project.

As discussed I have documented below some of the key points discussed during the evening:

- Going forward, Lazenby Environmental Group (LEG) requests that all correspondence is sent by post to Vicky Foulkes (chairperson of LEG)
- Forewind presented details about the Dogger Bank Teesside project:
 - Grid connection locations
 - Preferred landfall location
 - The cable corridor being investigated
 - Converter station sites under investigation
 - The planning process
 - Further details can be found at www.forewind.co.uk
- LEG raised concerns about whether National Grid would need to create further overhead power lines. Forewind emphasised that all electricity cables required as part of the Dogger Bank Teesside project (connecting the wind turbine generators to the National Grid substations), would be laid underground and that any concerns with regard to the need for further pylons from the substations should be directed to National Grid at:

Judith Vokes
Consents Officer
Consents Team
Land and Development
National Grid

07584 204 369
judith.vokes@nationalgrid.com

- LEG raised particular concern about the location and height of converter station buildings within the Wilton Complex, referring to a letter from ICI to the Local Council which explained that all buildings constructed under the Instrument of Consent would be constructed so as to have a “low visual impact”. With this in mind, LEG raised concerns about siting a 30m high converter station building at location S5. Forewind emphasised that the suitability of a site and the visual impact of a proposed converter station was at the forefront of the design process. Furthermore, the project would be consented under the Planning Act 2008, not the Instrument of Consent, and therefore a detailed visual impact assessment would be undertaken with consultation central to the iterative design process.
- LEG emphasised their desire to be fully consulted on the project as it progressed and Forewind committed to updating the group every three months about progress on the project.
- LEG asked when Forewind had first met with Sembcorp. Forewind confirmed that several meetings have taken place since Autumn 2011 to discuss possible land availability in the very early stages of the site selection process. Forewind requests that LEG directs any questions about the Dogger Bank development to Forewind. Forewind will also consult LEG directly.

I trust this covers everything discussed, but please don't hesitate to contact me if you think there is anything I have missed or you have any further queries about the project.

I shall be in touch when we have further details about the converter station and I look forward to engaging with the group further as our plans progress.

Yours sincerely



Mark Thomas

Head of Onshore Development

Cc: Judith Vokes (National Grid)

Cc: Patrick Pogue (Sembcorp Utilities (UK) Limited)



**DOGGER BANK
TEESSIDE A & B**

**March
2014**

Consultation Report

Appendix D.17

Summary of how Forewind carried out Section 47 consultation in accordance with the initial SoCC

Doc.No. F-STL-RP-001

Application Reference 5.1.4

Appendix D.17 Compliance with SoCC commitments – initial SoCC

Category	Commitment made in the SoCC	Compliance
Phase One – What we will consult on and when	<p>Forewind will clearly explain the site selection work done to date... Forewind will set out why the proposed location has been selected and what further refinement is required.</p> <p>Forewind will ask the local community to provide any comments or information on the site selection work...</p>	<p>This information was included in PEI (see Appendix D7 for the PEI NTS) and a summary was provided in the community consultation summary leaflet (Appendix D6) and exhibition panels (Appendix D12).</p> <p>A questionnaire and postage paid response cards were provided for any comments. See Appendices D8 and D13.</p>
Phase One - Public exhibition venues	Public exhibitions would be held at the places and times set out in the SoCC	Exhibitions were held at the places and times set out in the SoCC (Section 4.4 of the Consultation Report)
Phase One - Availability of consultation documents	Consultation documents (the Preliminary Environmental Information) will be available at the locations listed in the SoCC, and on the Forewind website from 24 May 2012	Consultation documents were available in the libraries listed in the SoCC and on the Forewind website from 24 May 2012 (see Section 4.4 of the Consultation Report)
Phase One – consideration of responses	Forewind will endeavour to consider any responses received outside the consultation period, wherever possible.	Responses that have been received after the consultation deadline, and deemed practical to include, have been considered (see Section 8.3 of the Consultation Report).
Phase Two	As detailed in Section 4.3 of the Consultation Report , after the first phase of consultation, Forewind took the decision to split the Dogger Bank Teesside into two separate DCO applications for Dogger Bank A & B and Dogger Bank C & D. An updated SoCC was published prior to the second phase of statutory consultation, explicitly for the Dogger Bank Teesside A & B development. See Appendix E1 for the updated SoCC and Appendix E16 for a summary of how the Applicant has complied with the commitments presented in the updated SoCC with respect to the second phase of consultation	
PEI	PEI will be available during both stages of consultation	The PEI NTS was made available during Phase One. The draft ES and draft NTS were available during Phase Two.

Who we will consult - Local Community Consultees	<p>Forewind will send newsletters and direct invitations to the consultation events to the people and groups identified in the SoCC.</p> <p>Events will also be advertised in local newspapers, marine journals and on the Forewind website.</p>	<p>As detailed in Section 4.3 of the Consultation Report, Forewind sent the initial SoCC, as well as a public letter to advertise the community consultation events, to all to the people and groups identified in the SoCC, as part of the invitation to the 2012 public exhibitions.</p> <p>As detailed in Section 6 of the Consultation Report, newsletters have been distributed throughout the pre-application phase in hard copy to all addresses in the Consultation Area and to all other stakeholders on Forewind's database by email or hard copy as appropriate.</p> <p>The dates and locations of the consultation events, plus the deadline for responses, were publicised in the Section 48 notice in local newspapers and marine journals (see Appendix F) and the Forewind website was kept up to date at all time with any relevant consultation information.</p>
Fisheries Liaison Plan	<p>Details of the fisheries consultation process will be published separately in Forewind's Fisheries Liaison Plan.</p>	<p>The Fisheries Liaison Plan was published in November 2011. It was updated and republished in April 2013. See Appendix G4.</p>
International consultees	<p>Forewind will work with the National Infrastructure Directorate and the relevant UK and EU governments to ensure that appropriate international stakeholders are consulted.</p>	<p>Forewind consulted international shipping and fishing companies and relevant departments of EU and European Economic Area (EEA) Member States.</p>
Public exhibitions	<p>Information and printed materials to be provided. Forewind staff will be at the exhibitions to answer questions. Visitors will be asked to submit feedback and comments via questionnaires.</p>	<p>Public exhibitions were held; see Section 4.4 and Section 4.6 of the Consultation Report.</p>

Newsletters and Factsheets	Forewind will produce zone level newsletters and subject-specific factsheets at key stages of the project to ensure that the local community is kept up to date with the development.	Seven Issues of the Dogger Bank News (Appendix G5) have been distributed by post or email to all those registered in Forewind's stakeholder database between spring 2013 and winter 2014. Three fisheries newsletters have been published since spring 2013 (Appendix G3) A landowner factsheet was produced to support Phase Two consultation (Appendix C5)
Lodging of consultation documents in public	All PEI documents, questionnaires, factsheets and newsletters will be lodged at Council libraries and other appropriate Council buildings, as detailed. They will also be available to download from the Forewind website.	The list of libraries for Phase One is provided in Appendix D9 and for Phase Two in Appendix E9 . Also see Chapter 4 of the Consultation Report . All documents were available to download from the Forewind website.
Overlapping consultations with other developers	Where possible, Forewind will avoid scheduling consultation events that overlap with other companies' consultations.	Forewind undertook due diligence to ensure that there was no overlap between consultation activities for Dogger Bank Teesside A and B and other companies' consultations.