

BERWICK BANK WIND FARM

Pre-Application Consultation Report

Appendix 11
December 2022



APPENDIX 11. FIRST ROUND OF CONSULTATION

Materials

Exhibition boards

OUR VIRTUAL EXHIBITION

Thank you for visiting our virtual public exhibition event where we will introduce the Berwick Bank Wind Farm project to the community.

The virtual exhibition includes traditional exhibition boards that you would expect at a village hall exhibition, along with live Q&A opportunities and a FAQ page.

If you cannot make the virtual public exhibition event, please send through any queries to berwickbank@sse.com or call Gary Donlin on 07384 798 101. You can also view further information on the project website at www.sserenewables.com/berwickbank

Between **Monday 23rd and Thursday 26th November**, the project team will be available to answer any further questions you may have on a live chat function in the virtual public exhibition during the following times:

- Monday and Tuesday 12pm to 2pm
- Wednesday and Thursday 6pm to 7pm

This is the first of a number of consultation events designed to keep local residents and other interested parties up-to-date and to encourage feedback as Berwick Bank progresses. We anticipate further events in Spring 2021, at which point feedback from this first round will have been taken into account with engineering, environmental and land surveys and studies progressed.

The Marr Bank Wind Farm is a separate project and is in the early stages of project development. We will keep the public, interested organisations and consultees updated as it progresses to the next phase.

ABOUT US

SSE Renewables is the leading developer, operator and owner of offshore wind energy across the UK and Ireland, with around 3GW of consented or in construction projects in UK and Irish waters out of a total development pipeline of over 6GW. SSE Renewables has the largest offshore wind development pipeline in the UK and Ireland. Part of the FTSE-listed SSE plc, our strategy is to drive the transition to a net zero future through the world class development, construction and operation of renewable energy assets.

3GW
of consented or in construction offshore wind projects out of a total development pipeline of over 6GW in the UK and Ireland

2GW
of operational onshore wind capacity with over 1GW under development

300MW
of pumped storage
750MW
of flexible hydro

580MW
580MW operational wind portfolio across three offshore sites, two of which we operate on behalf of joint venture partners

Berwick Bank Wind Farm

If consented, Berwick Bank could be one of the world's largest offshore wind farms

Berwick Bank can be shovel ready by 2024 and generating clean electricity by 2027

Berwick Bank – 2.3GW of clean renewable energy - can power all of Scotland's homes

If approved, Berwick Bank would be a multi-billion pound investment

The Scottish Government has recently announced its increased ambition to deliver 11GW of offshore wind energy by 2030 - Berwick Bank would play a significant role in meeting this target along with the UK and Scotland's net zero targets

Berwick Bank will mean 4 million tonnes of carbon dioxide is avoided every year - similar to removing more than a two-thirds of all of Scotland's annual car emissions

For a better world of energy

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ABOUT THE PROJECTS

Welcome to the virtual exhibition for our Berwick Bank Wind Farm proposals. We are following Scottish Government guidance in line with Covid-19 and currently moving our exhibitions online to ensure the safety of our staff and the local communities in which we work.

SSE Renewables is bringing forward the Berwick Bank Wind Farm proposals, alongside our plans for the neighbouring Marr Bank Wind Farm. These projects have different timescales, with the exhibition focusing on Berwick Bank.

and Inch Cape offshore wind farms.

Scotland's ambitious climate change legislation sets a target date for net-zero emissions of all greenhouse gases by 2045. Net-zero emissions for Scotland would benefit our environment, people, and economy. Offshore wind power will be a significant contributor to this target, and Berwick Bank and Marr Bank will play a key role in meeting this.

Berwick Bank and Marr Bank are proposed to be located in the outer Firth of Forth, over 54km and 40km, respectively, from the East Lothian coast and further away than the consented Neart na Gaoithe (NNG)

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Appendix 11. First round of consultation - materials

Exhibition boards

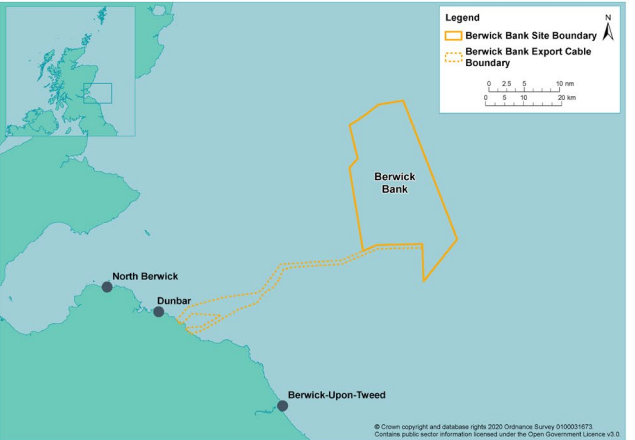
BERWICK BANK PROJECT SUMMARY

Berwick Bank is proposed to be located in the North Sea, in the outer Firth of Forth, approximately 54 km off the East Lothian coast.

Berwick Bank has an anticipated installed capacity of up to 2300MW and the project has secured a grid connection at Branxton, south of Torness Power Station, in East Lothian.

To facilitate both the Berwick Bank grid connection and another project in development, electricity grid upgrades are required by ScottishPower Transmission (SPT). SPT will propose separate development works for this upgrade, which will be separately consulted upon by SPT.

Berwick Bank's design is in its early stages and will be refined over the next year. We are hosting a virtual exhibition to introduce our plans for the project. We plan to engage further with the public in Spring 2021, where the project definition and design will be presented in more detail, and progress on environmental impact assessments will be fed back.



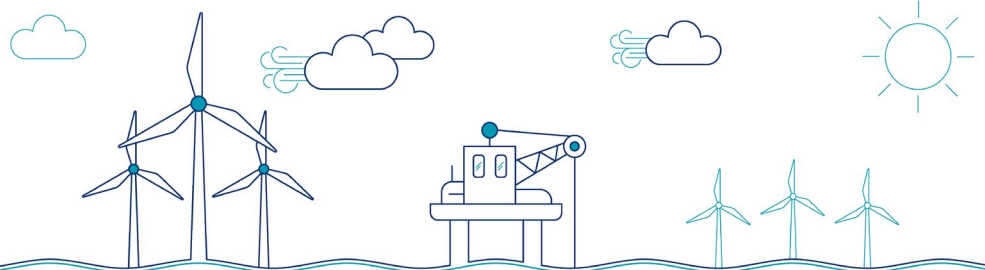
Legend

- Berwick Bank Site Boundary
- Berwick Bank Export Cable Boundary

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OTHER DEVELOPMENTS

We are conscious that there are other renewable energy projects either in development or going through construction within the East Lothian area and in the outer Firth of Forth, including Seagreen 1, Inch Cape, and NNG offshore wind farms and SPT transmission works. We are working with and are in regular communication with other developers in the area, primarily Seagreen 1, NNG and SPT, and are sharing lessons learned.



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BERWICK BANK PROJECT DESCRIPTION

OFFSHORE

The proposed array area of Berwick Bank comprises an area of approximately 775 km² located to the east of the large-scale morphological banks 'Marr Bank' and overlapping the 'Berwick Bank' in the south.

The offshore infrastructure works will generally comprise:

- up to 242 wind turbines (each comprising a tower section, nacelle and three rotor blades) and associated support structures and foundations
- substation platforms and associated support structures and foundations
- a network of inter-array cabling linking the individual wind turbines to the offshore substations and
- offshore export cables connecting the offshore substations to the onshore substation.



ONSHORE

Two landfall locations are being considered on the East Lothian coast, one at Thorntonloch Beach and the other at Skateraw.

Three substation sites are being considered in the vicinity of Thorntonloch, Skateraw and Crowhill. Their locations and sizes are being refined as part of the design process.

A grid connection point has been confirmed at a new SPT 400kV Branxton substation, south west of Torness Power Station under an existing grid connection agreement for 2.3 GW.

The onshore transmission works will generally comprise:

- up to two landfall locations and transition pits
- a new wind farm onshore substation
- the connecting, primarily underground, onshore cables with the potential options of a short section of overhead lines and a cable bridge
- potential new and upgraded access tracks to the substation, cable construction corridor and landfall(s) and associated ancillary infrastructure

Construction of the onshore proposals could take around 36 months.



Thorntonloch Beach



Skateraw



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Exhibition boards

KEY INFRASTRUCTURE OFFSHORE SITE SELECTION

Berwick Bank forms part of the wind farm development in the former Firth of Forth Zone. The Firth of Forth zone was part of the Round 3 offshore wind development programme instigated by The Crown Estate in 2008 and was designed to facilitate delivery of a larger scale offshore wind farm development than had previously occurred in the UK. Suitable areas for the development of offshore wind were assessed through a statutory process of environmental assessments undertaken by the government.

Key issues considered for offshore site selection included:

- water depth and distance to the shore
- wind, wave and climate conditions (metocean conditions)
- various environmental designations
- marine habitats
- marine ecology such as sea birds (ornithology), organisms living on the seabed (epifauna), those living in the sediments (infauna) and marine mammals such as cetaceans and seals
- shipping and navigation

The boundary was identified through consideration of several parameters within the wider Firth of Forth Zone, including:

- fishing effort
- seascape and landscape
- archaeology and cultural heritage
- aviation and telecommunications issues, such as civil and military aspects
- oil and gas infrastructure, cables and pipelines
- emergency services

Offshore environmental designations

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KEY INFRASTRUCTURE ONSHORE SITE SELECTION

The grid connection location for Berwick Bank in Braxton was determined by the grid network operator SPT. This led to the East Lothian coast being studied for suitable landfall locations. Once landfall options were identified, various sites were studied within the East Lothian area for the onshore infrastructure associated with the offshore wind farm. A key consideration to siting infrastructure was proximity to this grid connection.

Two landfall sites and three substation sites are being considered in detail for Berwick Bank. The selected landfall(s) and substation location will be presented at the next public exhibition. These will be assessed as part of the onshore EIA Report, which will form part of a forthcoming planning application.

Onshore key environmental constraints

Landfall

Key issues in consideration at the landfall sites:

- geotechnical (earth materials such as soil and rock)
- bathymetric (sea bed features)
- topography (the shape and features of the land's surface)
- underground/ overground infrastructure such as cables, utilities etc.
- natural obstacles such as rivers
- unexploded ordnance devices, historic mining, quarrying
- various environmental constraints and designations
- distance and width of the proposed sub-sea export offshore cable corridor

Substation

Key issues in consideration at the substation sites:

- topography (the shape and features of the land's surface)
- availability of space
- underground/ overground infrastructure such as cables, utilities etc.
- various environmental constraints and designations
- national, regional and local planning policy
- cable route length from landfall

Various environmental, engineering, design and ground investigation studies and workshops will continue to refine site selection to determine the most feasible options, minimising disruption and environmental impacts as much as reasonably possible.

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Appendix 11. First round of consultation - materials

Exhibition boards

THE CONSENTING PROCESS

Separate applications for consent will be made for offshore and onshore proposals, to Marine Scotland and East Lothian Council (ELC), respectively. An application for planning permission will be made to ELC in respect of onshore infrastructure. We are engaged in early discussions with ELC and Marine Scotland, which will continue over the coming months.

ENVIRONMENT IMPACT ASSESSMENTS
What is EIA?
 EIA is a process which identifies and assesses the potential significant effects of a project, informs the design of the project from an environmental perspective, and sets out standard industry and additional mitigation measures to eliminate or minimise the project's effect on the environment.

Our approach for Berwick Bank
 Our EIA approach reflects the consenting approach and distinguishes between offshore and onshore infrastructure, with separate EIA Reports to be prepared in respect of each. The Onshore EIA Report will assess the environmental impacts of the onshore transmission works and will be submitted to ELC as part of the planning application in support of the onshore proposals' consents application. The Offshore EIA Report for the offshore proposals will be submitted to Marine Scotland in support of the offshore proposals' consents application.

Submission of offshore and onshore applications for consent is anticipated towards the end of 2021.

Where are we in the EIA process?
 Onshore and offshore EIA scoping reports were submitted to East Lothian Council and Marine Scotland, respectively, in August 2020. The scoping reports can be downloaded from the project website here: www.sserenewables.com/berwickbankmarrbank

BERWICK BANK PROPOSED WORKS AND EIA
 This figure illustrates the split between the onshore and offshore proposals and the associated technical topics which will be assessed as part of the EIAs. Note that the 'New Grid Substation' and connection to the grid are SPT's 400kV Grid Substation located at Branxton. This proposal is a separate consents Application being delivered by SPT.

Onshore EIA Report	Physical Environment	Geology, Hydrology, Soils and Flood Risk	
	Biological Environment	Ecology and Ornithology	
	Human Environment	Traffic and Transport	
		Cultural Heritage	
Landscape and Visual			
Land Use, Tourism and Recreation			
	Socio-economics		
	Noise		
		Addressed in offshore physical environment topics	

Labels in diagram: Onshore HVDC Converter/HVAC Substation, HVAC Grid Connection Cable, New Grid Substation, Mean High Water Springs (MHWS), Mean Low Water Springs (MLWS), Service Operation Vessel, Offshore Substation Platform, Array Cable, Transition Joint Bay, Landfall.

THE DEVELOPMENT PROCESS

Consultation

WE ARE HERE

Informal Virtual Public Exhibition Event

Public Exhibition Events

Consultation period

Process

Site Selection
A thorough review of potential offshore sites and locations for key onshore infrastructure.

Scoping
In August 2020 the onshore and offshore EIA scoping reports were submitted to East Lothian Council and Marine Scotland, respectively, to obtain feedback and help define the scope of the onshore and offshore EIAs.

Environmental and baseline studies
Desk based assessments, consultation and field studies are underway. These will define the baseline environment for the onshore and offshore EIAs.

Preparation of the onshore and offshore EIA reports
The impacts of the proposed onshore and offshore designs are assessed using the relevant baseline information collected, various guidance and good practice guidelines. All findings will be presented in the onshore and offshore EIA reports.

Submission of application
There will be two distinct packages of application, one for the offshore infrastructure comprising applications for a Marine licence and consent under Section 36 of the Electricity Act 1989 and a second, comprising a planning application for the onshore transmission works under the Town and Country Planning (Scotland) Act 1997. Onshore and offshore applications will be submitted to Marine Scotland and East Lothian Council, respectively. Copies will be made available for the local community to view.

Consideration of the Applications

Determination of Applications

Formal Publication

Onshore EIA Scoping Report and Offshore EIA Scoping Report

Applications including the onshore offshore EIA Reports

Appendix 11. First round of consultation - materials

Exhibition boards


SURVEY CAMPAIGNS

ONSHORE

To date, surveys and investigations across the wider onshore study area have comprised:

- ecology surveys including breeding birds, habitat, a preliminary bat roost appraisal, badger, otter and wintering birds
- a hydrology survey to understand the surface water features across the site
- ground investigation works including exploratory boreholes and trial pits to determine the ground conditions and its characteristics.

In 2021, onshore environmental surveys will continue, including further ecology surveys, traffic and transport, noise, landscape and visual, and cultural heritage.




Thorntonloch Burn Ground investigation works Dry Burn


OFFSHORE

To date, the surveys across the wider offshore study area have comprised:


- a geophysical survey where data has been analysed to form detailed bathymetric (water depth) and geological maps. The results of this survey will also give an understanding of the marine archaeology present at the site
- geotechnical surveys to understand the properties of the seabed
- the deployment of three metocean buoys which measures the sea condition including wave heights
- the deployment of a Floating LIDAR which measures wind speeds
- aerial bird and marine mammal surveys which have comprised a plane flying over the proposed wind farm area once a month to record bird and marine mammal densities
- shipping density surveys
- benthic surveys which investigate the ecology of the sea bed.



Wave buoy as part of the metocean survey Guard buoy used as a marker as part of the metocean survey Wave buoy as part of the metocean survey



Bottlenose dolphin Anemone Kittiwakes




PROJECT OPPORTUNITIES

LOCAL OPPORTUNITIES

Some activity we have carried out for the project to date:

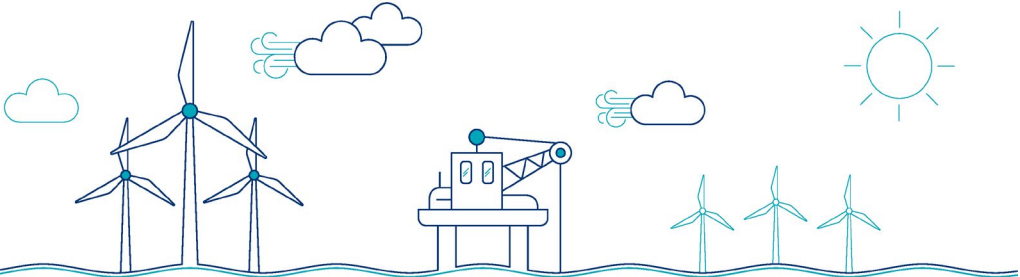

- Early correspondence and engagement with local community councils and residents around the proposed onshore works through letters and virtual meetings to provide updates and obtain initial feedback on the project plans.
- Member of Midlothian and East Lothian Chamber of Commerce Industry and Education Partnership group. Working with Developing Young Workforces (DYW) to implement an innovative, technologically challenging and fun Science, Technology, Engineering and Mathematics (STEM) programme into schools within the East Lothian area - in line with Covid-19 guidance.
- Virtual meeting with the Scottish Seabird Centre in North Berwick to explore education and conservation initiatives as well as support the Centre through their Covid-19 fundraising appeal.



PROCUREMENT

- We are keen to work with the local supply chain on this project. To date, we have worked alongside a number of Scottish environmental, survey specialist, geotechnical and engineering consultancies to assist with the EIA studies, engineering and ground investigation works. We have also worked with SFF Services based in Aberdeen, specifically to provide offshore guard vessels and Fisheries Liaison Officers. Over the past two years, the offshore contractors and vessels have used port facilities in Leith, Eyemouth, Dundee, Montrose, Port Edgar, and Peterhead to carry out their works. We look forward to engaging with the local supply chain further as the project progresses and will organise a number of Meet the Developer events to outline opportunities.
- These projects, if consented, can be shovel ready for 2024 – we want to work with local authorities and government to ensure that we have a strong supply chain that is ready to help deliver these projects, which if consented will represent a multi-billion pound investment.
- If consented, Berwick Bank and Marr Bank will be built before the ScotWind offshore wind projects (the next set of offshore wind farms circa 2030 onwards) - these projects will be central to gearing up a long term and sustainable Scottish supply chain for Scotland's offshore renewables sector.

We are undertaking a socio-economic study to help inform our requirements and will share with local authorities, port authorities, government in 2021.

Appendix 11. First round of consultation - materials

Exhibition boards

NEXT STEPS FOR BERWICK BANK

NEXT STAGES
Currently, we are continuing with our onshore and offshore environmental surveys and studies, working closely with the engineering teams on the project design and definition, and continuing our ongoing stakeholder engagement activities.

Key dates for the programme are:

Onshore and offshore environmental surveys – 2019 to 2021	Drafting of the onshore and offshore EIA reports – 2021	
	Second public exhibition – anticipated Spring 2021	Submission of the onshore and offshore consents applications, both including the respective EIA reports – anticipated end of 2021

COMMUNITY INVOLVEMENT

Covid-19 has unfortunately delayed opportunities for our team to be in the community to explain the plans and to build partnerships with local groups – we hope to attend Gala Days and Summer Shows in 2021 dependent on Covid-19 restrictions. In the meantime, we would welcome the opportunity to meet with community groups and organisations online, and in person in the future when restrictions ease. As the project progresses, we will develop local opportunities and community benefits in liaison with the community and as part of the public engagement process.






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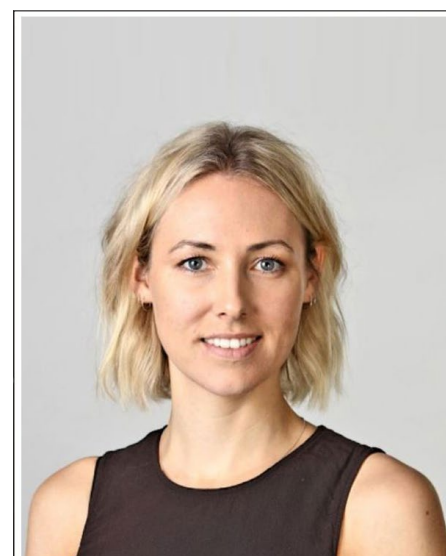
Team Summary



Douglas Watson
Hello, my name is Douglas Watson and I am the Offshore Consents Manager for the Berwick Bank Wind Farm project. My role is to identify and address any issues regarding the offshore proposals of the project and lead on the offshore environmental and consenting activities.



Gary Donlin
Hello, my name is Gary Donlin and I am the Stakeholder Engagement Manager for the Berwick Bank Wind Farm project. My role is to ensure that we are engaging and communicating with all stakeholders and interested parties during the life-time of the project and to ensure that your views, opinions and concerns are taken on board.



Elouise Smith
Hello, my name is Elouise Smith and I am the Onshore Consents Manager for the Berwick Bank Wind Farm project. My role is to identify and address any issues regarding the onshore transmission works of the project and lead on the onshore environmental and consenting activities.

Appendix 11. First round of consultation - materials

3D digital visualisations of proposed onshore works

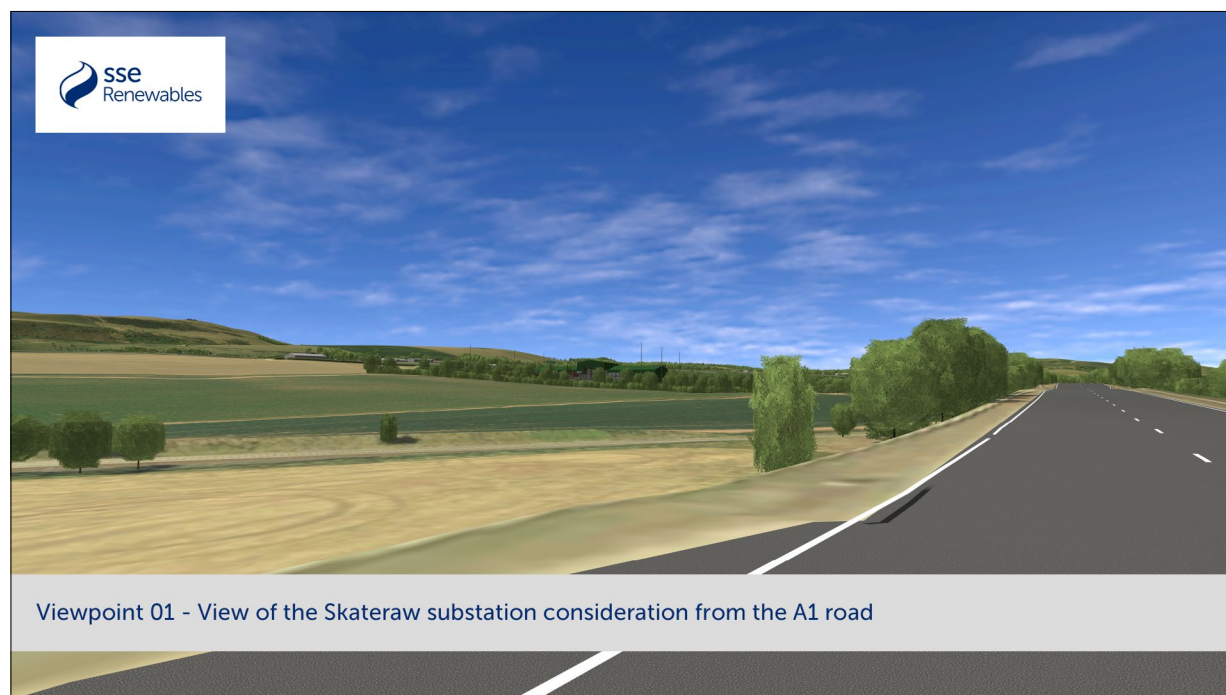


Figure 1 View of the Skateraw substation consideration from the A1 road



Figure 2 View of the Thorntonloch substation consideration from the A1 road



Figure 3 View of the offshore turbines and substation considerations from Blackcastle Hill



Figure 4 View of the offshore turbines and substation considerations from Innerwick

Appendix 11. First round of consultation - materials

3D digital visualisations of proposed onshore works



Figure 5 View of Thorntonloch Holdings substation consideration from the John Muir Way



Figure 7 View of Thorntonloch Holdings substation consideration from a minor road near Thorntonloch



Figure 6 View of the Skateraw substation consideration from the John Muir Way near Skateraw Harbour



Figure 8 View of turbines and Skateraw substation consideration from a minor road near Thurston

Appendix 11. First round of consultation - materials

3D digital visualisations of proposed onshore works



Figure 9 View of the offshore turbines from St Abbs Head



Figure 10 View of the offshore turbines from Tantallon Castle

3D video fly-through of proposals



Appendix 11. First round of consultation - materials

Feedback forms

Contact us / Feedback

How did you find the quality of information provided at today's event?
 Excellent Good Average Poor

Did you find the virtual exhibition accessible and easy to navigate?
 Yes No

If no, what could we do better?

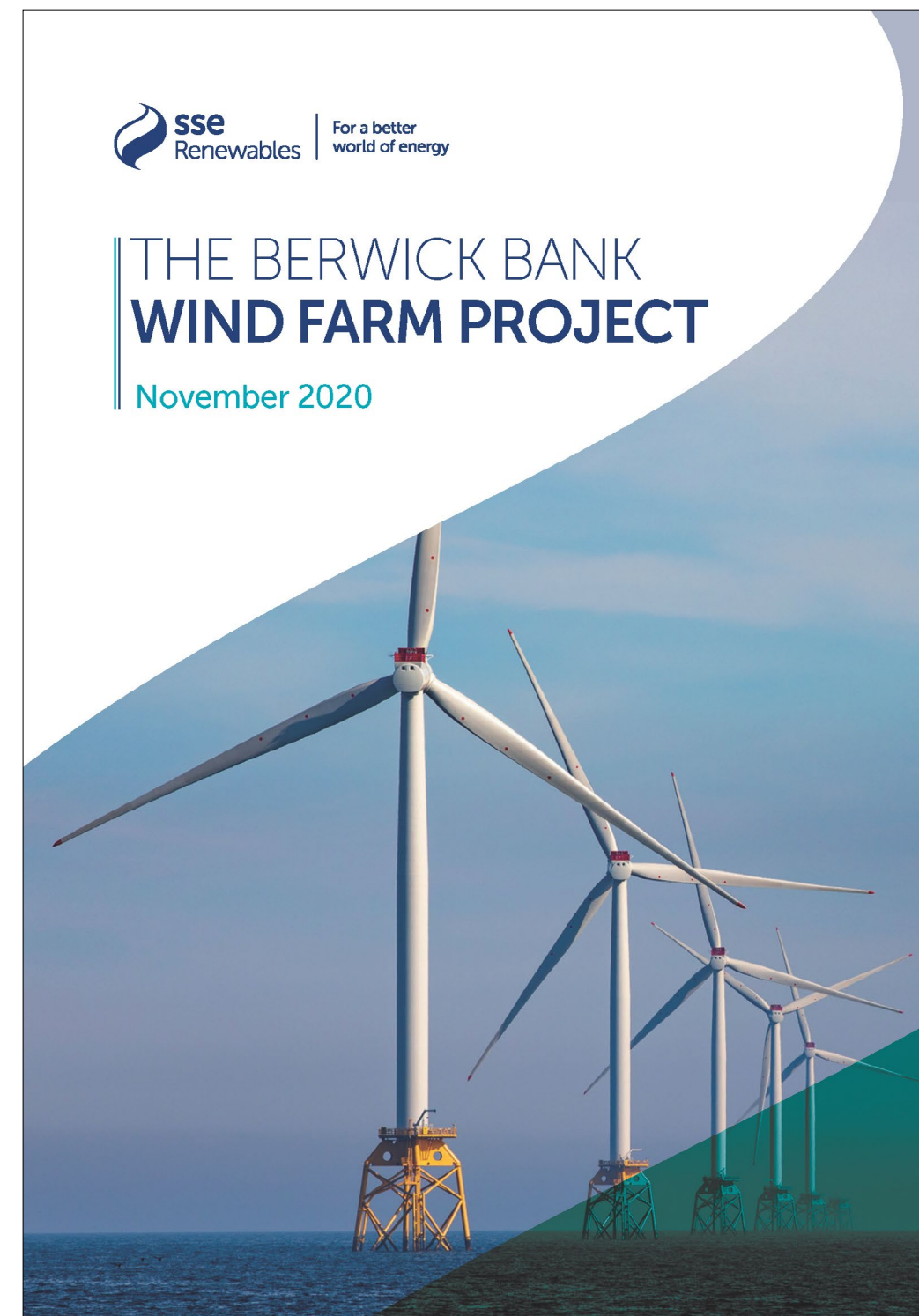
Do you agree with SSE Renewables proposals for the Berwick Bank Wind Farm
 Agree Disagree Unsure

Would you like kept informed of project updates? If so, please confirm your e-mail address

Do you have any specific concerns regarding the proposals you would like the project team to consider?

Contact Us
 If you have any additional comments, feedback or would like to get in touch with the project team then please contact the project Stakeholder Engagement Manager, Gary Donlin at gary.donlin@sse.com or on 07384 798 101.

Brochures



Appendix 11. First round of consultation - materials

Brochures

THE BERWICK BANK WIND FARM PROJECT

WHO WE ARE

SSE Renewables is the leading developer, operator and owner of offshore wind energy across the UK and Ireland, with around 3GW of consented or in construction projects in UK and Irish waters out of a total development pipeline of over 6GW. SSE Renewables has the largest offshore wind development pipeline in the UK and Ireland. Part of the FTSE-listed SSE plc, our strategy is to drive the transition to a net zero future through the world class development, construction and operation of renewable energy assets.

<p>3GW of consented or in construction offshore wind projects out of a total development pipeline of over 6GW in the UK and Ireland</p>	<p>2GW of operational onshore wind capacity with over 1GW under development</p>	<p>300MW of pumped storage</p> <p>750MW of flexible hydro</p>
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580MW
580MW operational wind portfolio across three offshore sites, two of which we operate on behalf of joint venture partners

Berwick Bank & Marr Bank

One of the world's largest offshore wind farms in development

£8 billion
pound investment, the equivalent of six Queensferry Crossings

Together could produce **3.2 GW** of clean renewable energy

The Scottish Government has recently announced its increased ambition to deliver 11GW of offshore wind energy by 2030 - both projects will play a significant role in meeting this target along with the UK and Scotland's net zero targets

Berwick Bank

Berwick Bank can be shovel ready by 2025 and generating clean electricity by 2027

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SSE RENEWABLES BERWICK BANK WIND FARM PROJECT || 3

THE BERWICK BANK WIND FARM PROJECT

ABOUT THE BERWICK BANK AND MARR BANK WIND FARM PROJECTS

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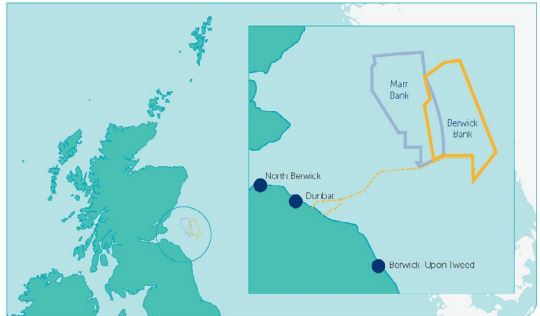
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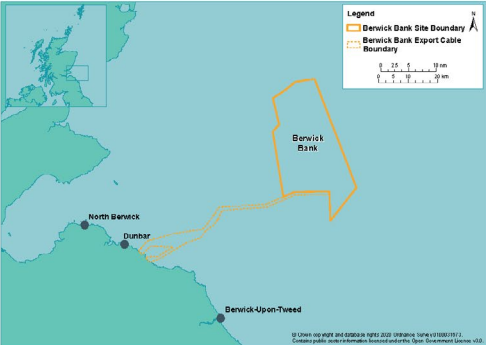
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Appendix 11. First round of consultation - materials

Brochures

THE BERWICK BANK WIND FARM PROJECT

OUR VIRTUAL EXHIBITION

We are following Scottish Government guidance in line with Covid-19 and currently moving our public exhibitions online to ensure the safety of our staff and the local communities in which we work. In lieu of being able to host a traditional face-to-face consultation, we will be running a virtual public exhibition event to fully introduce Berwick Bank to the community.

You can access the exhibition between Monday 16th and Friday 27th November through the following link www.sserenewables.com/berwickbankmarrbank

Between **Monday 23rd and Thursday 26th November**, the project team will be available to answer any further questions you may have on a live chat function in the virtual public exhibition during the following times:

- Monday and Tuesday 12pm to 2pm
- Wednesday and Thursday 6pm to 7pm

The virtual exhibition is free to attend and designed to be as informative and interactive as a traditional consultation.


If you cannot make the virtual public exhibition event, please send through any queries to berwickbank@sse.com or call Gary Donlin on 07384 798 101.





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