# BERWICK BANK **WIND FARM**

Pre-Application Consultation Report

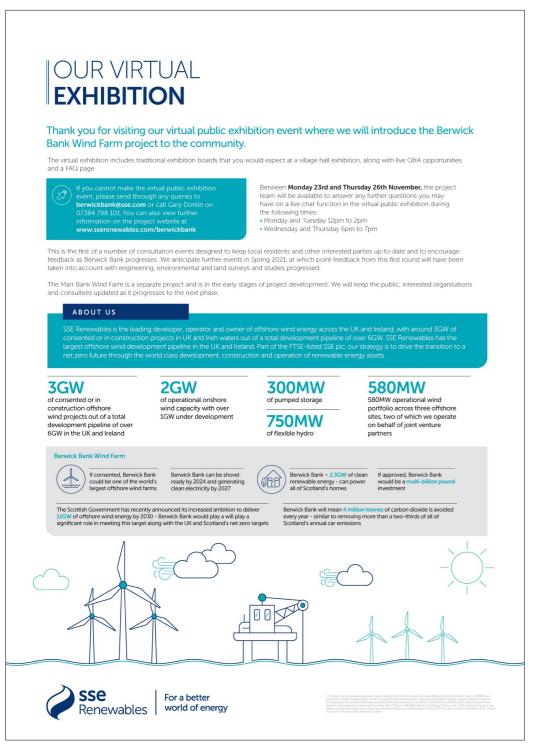
Appendix 11 December 2022



# APPENDIX 11. **FIRST ROUND OF CONSULTATION**

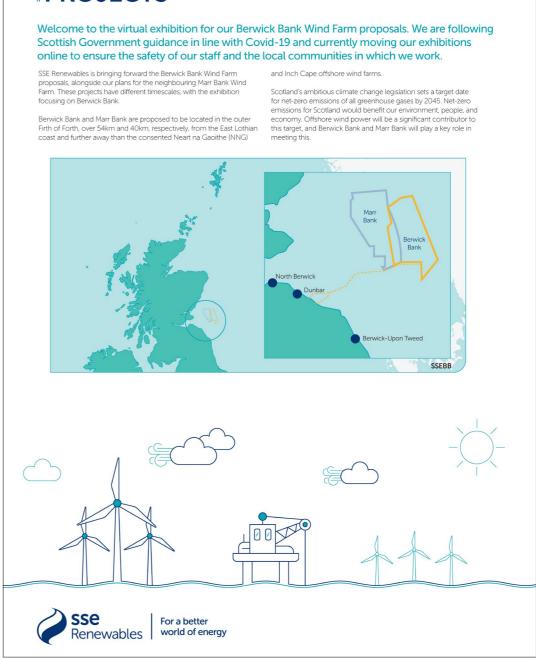
Materials

### Exhibition boards

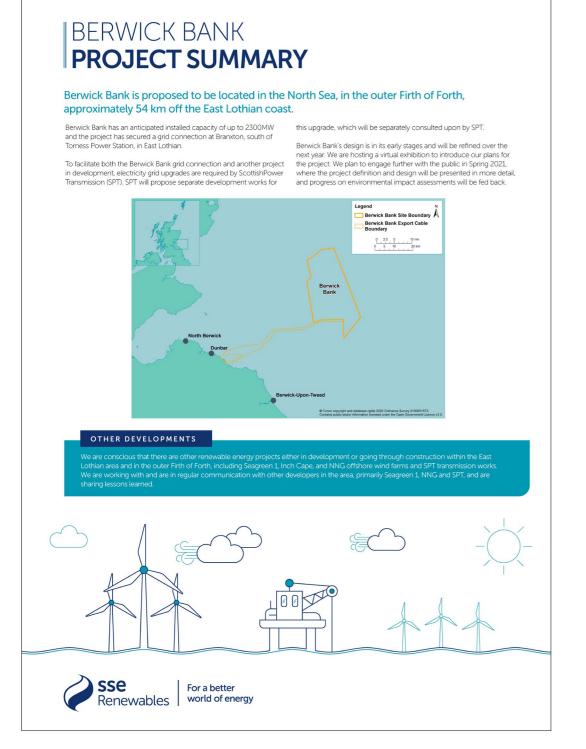


## ABOUT THE PROJECTS

Firth of Forth, over 54km and 40km, respectively, from the East Lothian coast and further away than the consented Neart na Gaoithe (NNG)



#### Exhibition boards



## 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 other at Skateraw

A grid connection point has been confirmed at a new SPT 400kV Branxton substation, south west of Torness ower 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
- 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.





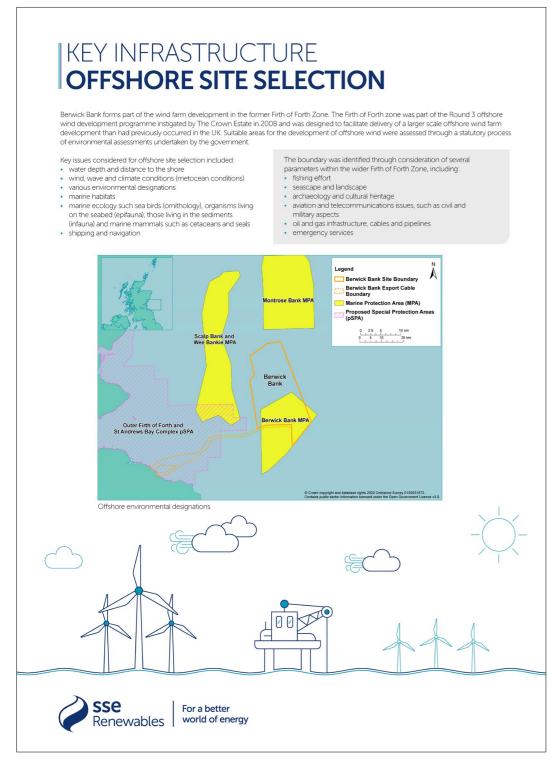
Two landfall locations are being considered on the East Lothian coast, one at Thorntonloch Beach and the

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

the connecting, primarily underground, onshore cables with the potential options of a short section of



#### Exhibition boards



## KEY INFRASTRUCTURE **ONSHORE SITE SELECTION**

The grid connection location for Berwick Bank in Branxton 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 forthcorning planning application.



- 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





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

### 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.

works and will be submitted to ELC as part of the planning application

Scotland in support of the offshore proposals' consents application

Submission of offshore and onshore applications for consent is

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:

ables.com/berwickbankmarrbank

anticipated towards the end of 2021.

in support of the onshore proposals' consents application. The Offshore EIA Report for the offshore proposals will be submitted to Marine

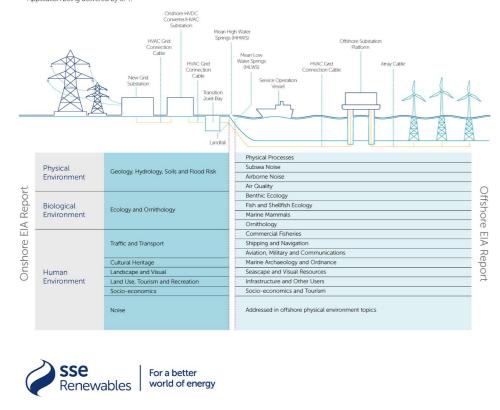
#### ENVIRONMENT IMPACT ASSESSMENTS

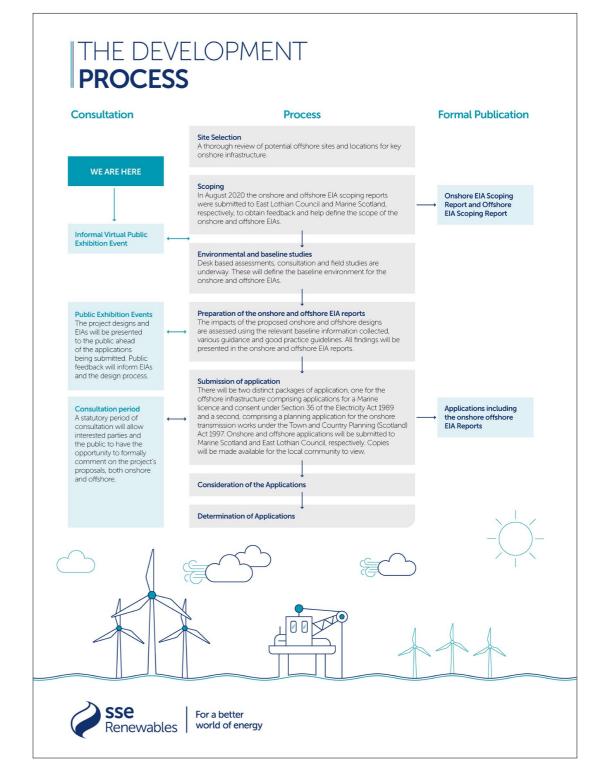
What is EIA? EIA is a process which identifies and assesses the potential significant effects of a project, informs the design of the project from an environmental perspective, and sets out standard industry and additional mitigation measures to eliminate or minimise the project's effect on the environment.

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

#### 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 SPTs 400kV Grid Substation located at Branxton. This proposal is a separate const Application being delivered by SPT.





### 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.

Ground investigation works

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





Dry Burr



Thorntonloch Burr

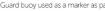
OFFSHORE

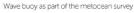
- To date, the surveys across the wider offshore study area have comprised:
- a geophysical survey where data has been analysed to form detailed bathymetric (water depth) and geological maps. The results of this survey will
- also give an understanding of the marine archaeology present at the site geotechnical 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.



buoy as part of the metocean survey















Kittiwakes



#### **10** || Report on Consultation

Bottlenose dolphin

### PROJECT **OPPORTUNITIES**

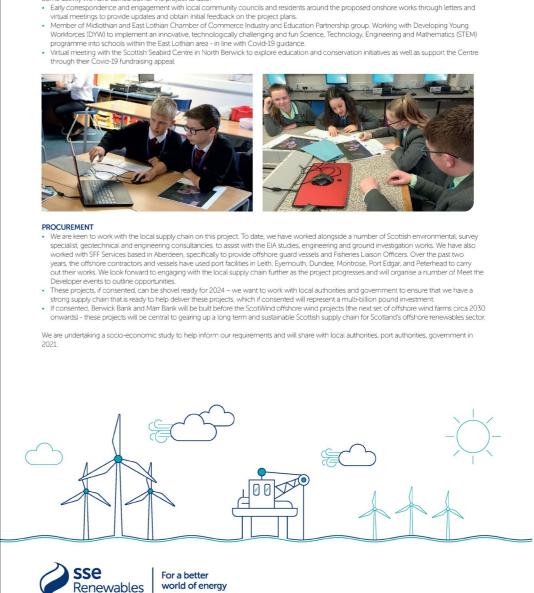
#### LOCAL OPPORTUNITIES

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





- Developer events to outline opportunities.



#### Exhibition boards



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



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.

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.

### 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

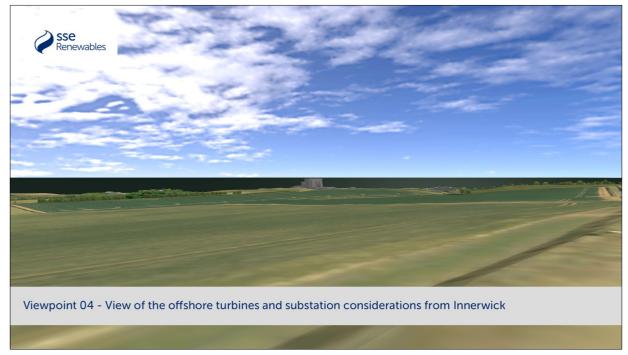


Figure 4 View of the offshore turbines and substation considerations from Innerwick

### 3D digital visualisations of proposed onshore works



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



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

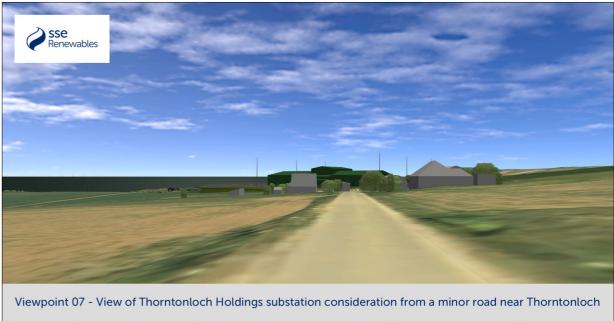


Figure 7 View of Thorntonloch Holdings substation consideration from a minor road near Thorntonloch

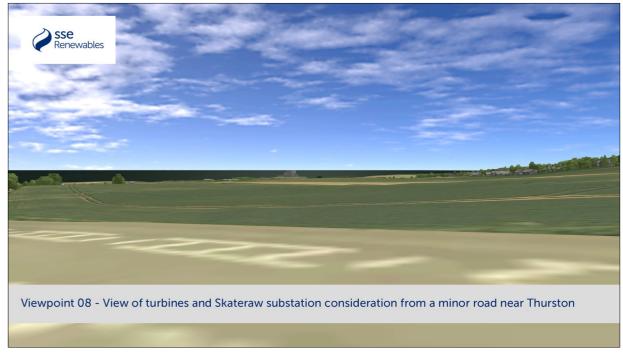


Figure 8 View of turbines and Skateraw substation consideration from a minor road near Thurston

### 3D digital visualisations of proposed onshore works



Figure 9 View of the offshore turbines from St Abbs Head



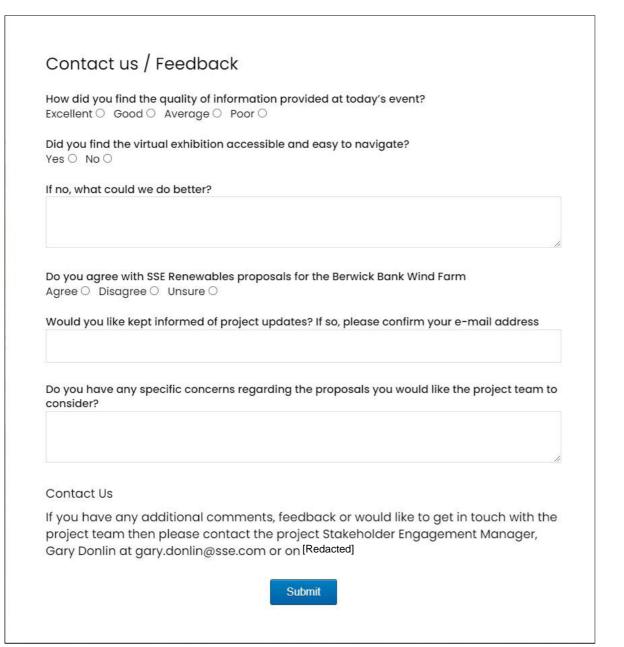
Figure 10 View of the offshore turbines from Tantallon Castle

### 3D video fly-through of proposals

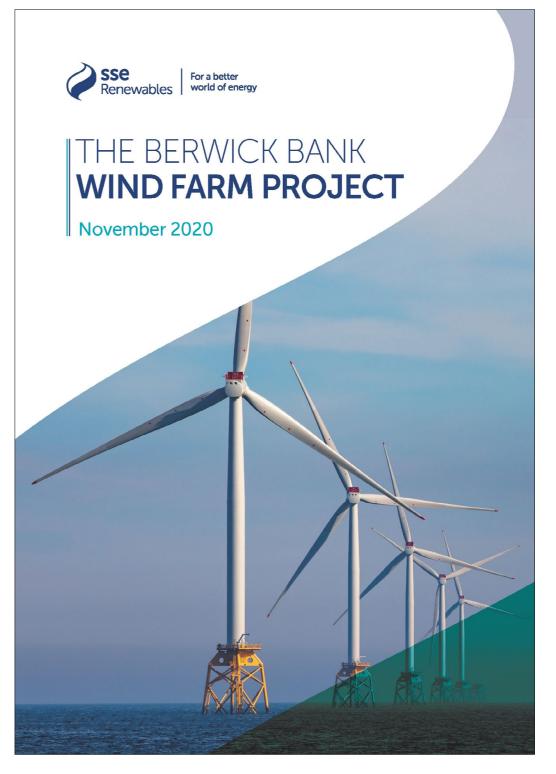


### BERWICK BANK WIND FARM

### Feedback forms



Brochures



### Brochures



THE BERWICK BANK WIND FARM PROJECT

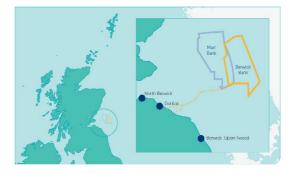
### ABOUT THE BERWICK BANK AND MARR BANK WIND FARM PROJECTS

SSE Renewables is bringing forward the Berwick Bark 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.

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) 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 the Berwick Bank and Marr Bank projects will play a key role in meeting this.



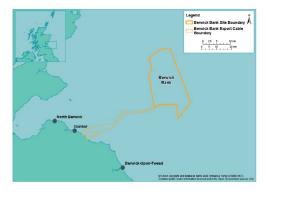
4 || SSE RENEWABLES BERWICK BANK WIND FARM PROJECT

## BERWICK BANK

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 at this early stage and receive initial feedback from the public. 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.



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### Brochures





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