

BERWICK BANK **WIND FARM**

Scotland's global
offshore opportunity



SSE INTRODUCTION

SSE is the leading generator of renewable electricity in the UK and Ireland, providing energy needed today while building a better world of energy for tomorrow.

It develops and operates low-carbon infrastructure supporting the net zero transition, including onshore and offshore wind, hydro power, electricity transmission and distribution grids, efficient gas and energy from waste, alongside providing energy products and services for businesses.

UK listed, SSE is a major contributor to the UK and Ireland economies, employs 12,000 people and is real Living Wage and Fair Tax Mark accredited. SSE Renewables is a leading developer, operator, and owner of renewable energy across the UK and Ireland, with a portfolio of around 4GW of onshore wind, offshore wind, and hydro.

Part of the FTSE-listed SSE plc, its strategy is to drive the transition to a net zero future through the world-class development, construction, and operation of renewable energy assets. SSE Renewables owns nearly 2GW of operational onshore wind capacity with over 1GW under development.

SSE Renewables currently has the largest portfolio of offshore wind developments in the UK and Ireland at over 7GW and onshore wind in excess of 1GW. SSE Renewables parent company SSE plc is a Principal Partner to the UK Government in the run up to and during the COP26 UN climate summit in November 2021.



PROJECT INTRODUCTION

Located in the North Sea, in the outer Firth of Forth, Berwick Bank Wind Farm has the potential to deliver up to 4.1 GW of installed capacity, making it one of the largest offshore opportunities in the world.

Berwick Bank Wind Farm is in the development phase and previously the project was comprised of two separate proposals, Berwick Bank Wind Farm and Marr Bank Wind Farm.

Following initial rounds of consultation, it has been decided to combine our proposals into one single opportunity – Berwick Bank Wind Farm, which is situated in one of the most studied areas of seabed in the world.

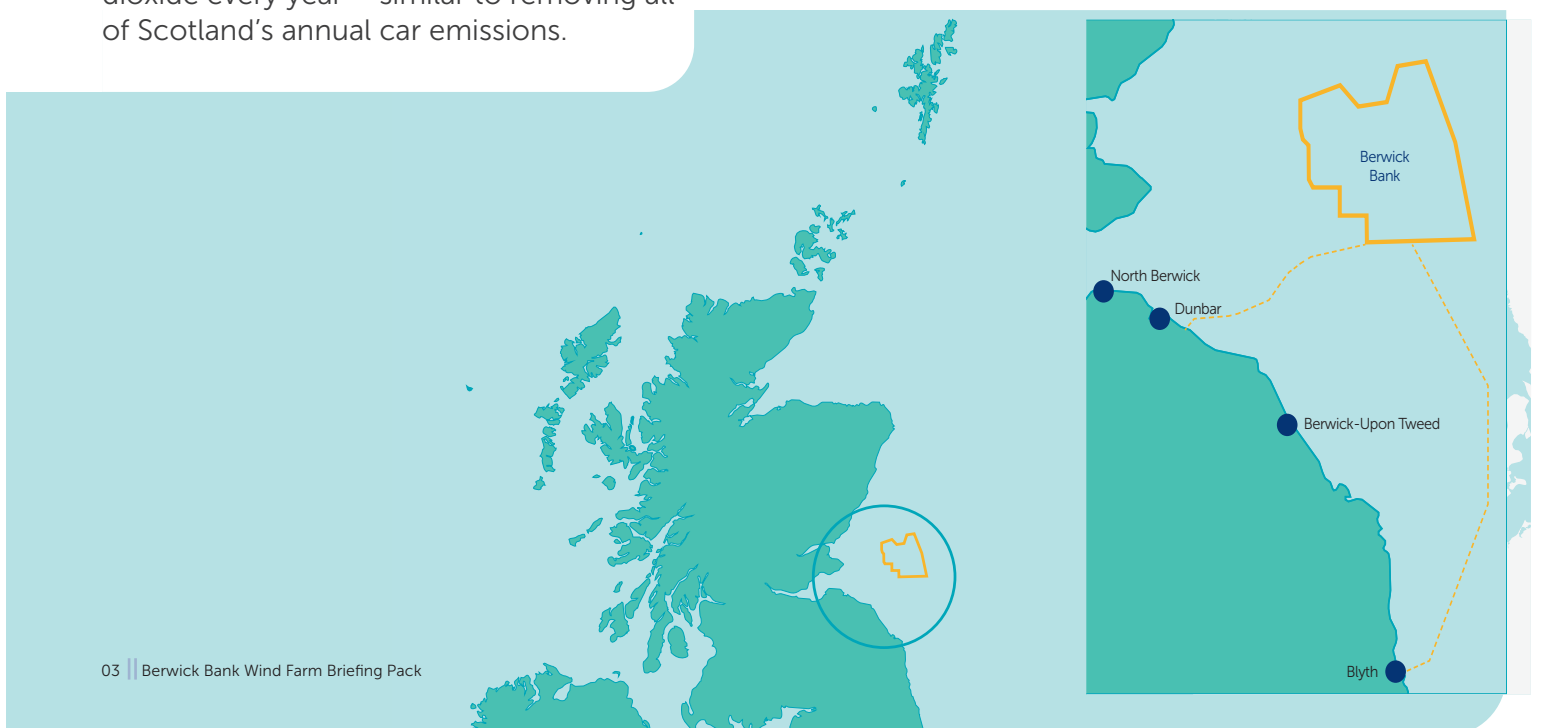
Over ten years SSE Renewables has conducted one of the world's largest aerial bird surveys and has an enormous amount of data on the site enabling the company to put forward the most environmentally sensitive design possible. Berwick Bank Wind Farm will connect to the electricity grid at Branxton, near Torness, in East Lothian and a secondary connection point at Blyth, Northumberland, which will form a separate planning application to be submitted in 2023.

The project will be capable of generating enough clean, renewable energy to power over five million homes, equivalent to all of Scotland's households twice over, and avoiding eight million tonnes of carbon dioxide every year – similar to removing all of Scotland's annual car emissions.



“By combining the proposals we believe we can deliver this super project more quickly to increase the urgency of our response to the climate emergency”

Elouise Smith || Lead Consents Manager



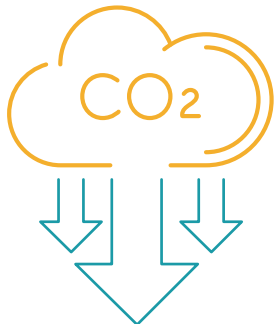
PROJECT FACTS



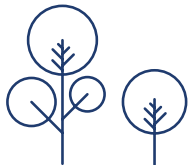
Berwick Bank Wind Farm can generate enough clean, renewable energy to power over 5 million homes, equivalent to supplying all of Scotland's households twice over



Berwick Bank Wind Farm will mean 8 million tonnes of carbon dioxide is avoided every year – similar to removing all of Scotland's annual car emissions



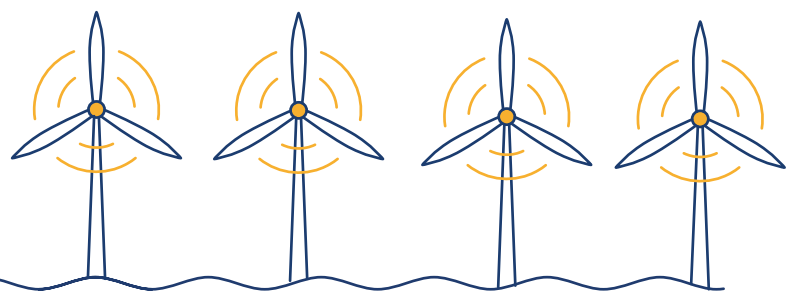
Berwick Bank Wind Farm represents a multi-billion pound opportunity for the Scottish supply chain and will require a capital spend of more than five times the Queensferry Crossing



Berwick Bank Wind Farm would provide the opportunity for a significant boost to the local, regional and national economy

Berwick Bank Wind Farm is further developed than any current Scotwind proposals and a successful consent is essential to meeting Scottish Government offshore wind and net zero targets

Berwick Bank Wind Farm can be generating electricity by the second half of this decade



TACKLING THE CLIMATE EMERGENCY AND DELIVERING NET ZERO FOR SCOTLAND

The most recent UN IPCC report noted that we are now at a 'code red for humanity', the climate emergency we all face must be addressed and acted on now.

Berwick Bank Wind Farm is one of the largest offshore wind opportunities in the world, it is deliverable now and it is essential if Scotland is to be successful in meeting 2030 decarbonisation targets and delivering Net Zero.

In October 2020, the Scottish Government issued a Policy Statement indicating it believes that "11GW of installed Offshore Wind capacity is possible by 2030".

The current Scottish Offshore Wind Pipeline, which includes proposals in the planning stage, through to proposals already operational, currently sits at 10GW. This figure includes Berwick Bank Wind Farm, which would account for 4.1GW of this.

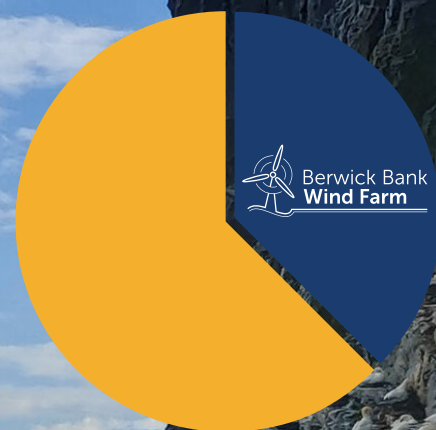
To date the Project has done a substantial amount of work to ensure that we are developing our proposals responsibly, this has included engaging with several environmental stakeholders.

A full Environmental Impact Assessment (EIA) will be carried out as part of the planning applications to East Lothian Council and Marine Scotland. Within this EIA, SSE Renewables will detail any potential impacts to the local area because of our works and any mitigation measures that may be required.

The Project has completed one of the largest known ornithology surveys in the world of the proposed area, and this has included 25 months of aerial surveys, consisting of a 16km buffer around the site, 300 hours of flight time, across 5,000 square km: seven times the size of East Lothian.

Part of this process involved the analysis of over 15 million images which documented over 338,000 birds and 2000 marine mammals.

37% of the Scottish offshore wind target by 2030 met by Berwick Bank Wind Farm alone



BOOSTING RECOVERY AND BENEFITTING THE LOCAL SUPPLY CHAIN

Berwick Bank Wind Farm represents a potential multi-billion-pound investment in Scotland's renewable infrastructure. This opportunity has the potential to bring a host of environmental and economic benefits to East Lothian and Scotland.

Berwick Bank Wind Farm has already contracted several local companies in East Lothian to support development of the project and held an introductory supply chain webinar in April 2021, which was attended by almost 700 businesses.

SSE Renewables has worked with several local partners such as the Scottish Sea Bird Centre and Fringe By The Sea to ensure that we engage and work with stakeholders. SSE Renewables are committed to ensuring that the local economy and local supply chain are made aware of all potential opportunities associated with the project.

SSE Renewables is currently undertaking a socio-economic report to help us better understand the full range of economic benefits our proposal can bring to the local area, in addition we are committed to engaging with the local, regional, and national supply chain to identify opportunities throughout the lifespan of the project.

"Local stakeholders and the local community are crucially important to the success of our Project. This is why we are looking to engage and work alongside the local community and support local initiatives wherever possible"

Alex Meredith || Project Director

BERWICK BANK IN NUMBERS

Power generation

Up to **307** turbines

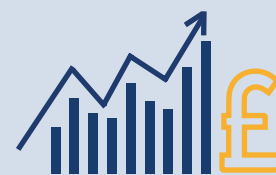
producing **4.1GW** of power

supplying **5 Million** homes



Economy

Up to **£8.3 Billion** to UK economy



Jobs

4,650 potential jobs created in Scotland
9,300 potential jobs created in UK

CONCLUSION

BERWICK BANK WIND FARM: SOLVING SCOTLAND'S PROBLEMS

Berwick Bank Wind Farm is not only crucial in tackling the climate crisis and of enormous benefit to Scotland's renewable sector but has the potential to make a significant contribution to boosting economic recovery, and creating

The key advantages of the project include:



One of the worlds largest offshore wind opportunities



Crucial to Scotland meeting its offshore wind targets by 2030



Capable of generating up to 4.1GW of clean electricity



Generating enough clean, renewable energy to power over five million homes



A multi-billion pound opportunity for the Scottish supply chain

NEXT STEPS

Berwick Bank Wind Farm is progressing through the development process, with a planning application for the 4.1GW project expected to go to the Scottish Government in December 2022.

If consented and given the green light for construction, it could begin generating clean electricity in the second half of this decade and play a key role in helping Scotland meet its near-term Net Zero targets of generating up to 11GW new offshore wind by 2030. Berwick Bank Wind Farm presents the opportunity for key stakeholders to take decisive action in ensuring Scotland is at the forefront of the global effort to tackle climate change, boosting Scotland's economic recovery and on a more local level, developing East Lothian's supply chain.

The scale of Berwick Bank Wind Farm makes it one of the largest offshore wind farms currently in development anywhere in the world and will accelerate Scotland's place as a global leader in tackling climate change. It is crucial that Berwick Bank Wind Farm is consented and can progress with construction.

PROJECT TIMELINE

The following timeline* gives a sense of our work to date and the path which will help Scotland pave the way to net zero:

2021:
Ongoing aerial surveys which commenced in March 2019

April 2021:
Introductory supply chain webinar held

October 2021:
Community Roadshow, East Lothian

February/March 2022:
Public consultation event

2022/23:
Ongoing tendering and supply chain activities

2024 - 2026:
Financial investment decision

November 2020:
A virtual public exhibition to introduce Berwick Bank Wind Farm to the public was held

Spring 2021:
A geophysical survey completed on one of the landfall options

September 2021:
The project team to submit a second scoping report

December 2021:
Public consultation event

Q4 2022:
Planning application submitted

2023 - 2025:
UK Government contract for Difference Auction

2024 - 2026:
Construction begins

**This timeline is indicative and subject to change.*