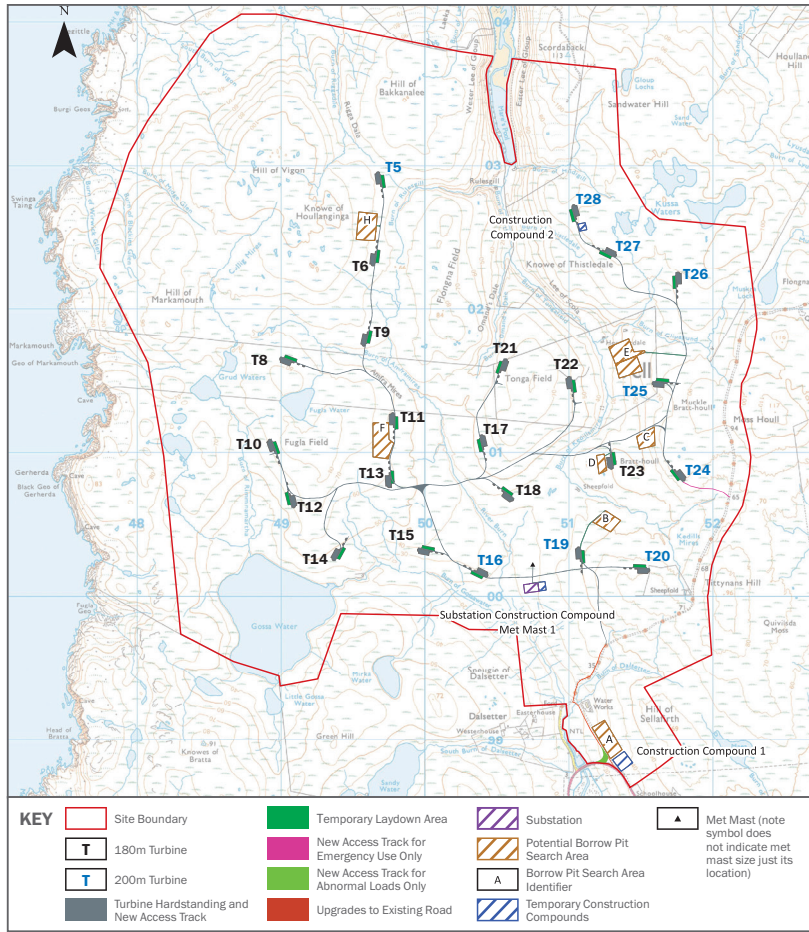


# ENERGY ISLES: RENEWABLE ENERGY IN THE NORTH ISLES



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## CURRENT FACTS AND STATS

Number of Turbines	23
Turbine Tip Height	Up to 200m
Lifespan	30 years
Energy Generation	Approx. 160 MW
<b>2012</b>	Site identified with great wind speed
<b>2013</b>	63 turbine layout produced
<b>2014</b>	Scope of development agreed
<b>2015</b>	Initial environmental studies undertaken
<b>2018</b>	50 turbine layout presented at public exhibitions Subsequently revised to 29 turbines
<b>2019</b>	29 turbine layout presented at public exhibitions Supplier's day in Yell Application submitted to Scottish Ministers
<b>2020</b>	23 turbine layout presented at public exhibitions Supplementary Environmental Information (SEI) submitted

## SUPPLEMENTARY ENVIRONMENTAL INFORMATION (SUBMITTED AUGUST 2020)

14 turbines with 200m tip height
9 turbines with 180m tip height
Approximately 160MW installed capacity
£800k per year community benefit
Equivalent to the average annual electricity demand of over 190,000 typical homes*

\* Based on average household consumption of 3618 kWh

### Dear Resident,

I hope you find this newsletter a helpful summary of the Energy Isles Wind Farm and how it has evolved since first being proposed eight years ago. We want to make sure we keep you informed on the project – please visit the project website and register to receive updates.

Kind regards

**Charlotte Healey**  
Energy Isles Development Manager



### CONTACT US

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## BENEFITS

### JOBS AND ECONOMY

During the development and construction phase the wind farm would **generate up to £20.3 million of investment in Shetland.**

We have already held two suppliers' day events. **Register as a local supplier on our website.**

**£2.2 MILLION**

The contribution to **non-domestic rates** is estimated at £2.2 million per year, supporting the delivery of local public services.

**£20.3 MILLION INVESTMENT IN SHETLAND**



### COMMUNITY BENEFIT FUND

The proposed development is expected to bring wider benefits to the North Isles, including a community benefit fund of up to

**£800,000 EACH YEAR FOR 30 YEARS**

This could be used to:

- Support initiatives aimed at reducing fuel poverty
- Stimulate growth in the North Isles economy
- Support existing community councils and voluntary organisations
- Fund projects identified by the community



### CONNECTING SHETLAND

The planned 600 MW interconnector would see a cable running between Noss Head near Wick and Kergord in Shetland, powering the local grid with cleaner energy and enabling Shetland's emerging new renewable energy sector to grow. We strongly support a link being built as soon as possible, greatly assisting Shetland to reduce its carbon footprint and lead the way in renewable development.



### BROADBAND

We are always exploring ways in which we can provide positive benefits to local communities near our projects. Access to a reliable and fast broadband connection is often an issue in rural areas. We believe there is potential for our wind farms to bring improved access to broadband, and are actively exploring this with other communities with similar projects such as Caithness. If you would like to know more about the potential reach and capability for Yell, please talk to us.



## SHETLAND: LEADING THE WAY WITH RENEWABLE ENERGY

### GLOBAL CHANGE

According to the most recent UN Emissions Gap Report,<sup>1</sup> global greenhouse gas emissions have risen at a rate of 1.5 per cent per year in the last decade and members of the G20, including the UK, are responsible for 78% of all emissions.

In order to achieve a rise of only 1.5 degrees Celsius in worldwide temperature, countries must decrease their emissions by 5 times more than they are currently doing.

<sup>1</sup> <https://www.unenvironment.org/resources/emissions-gap-report-2019>

“ Unless warming is kept below 1.5C, it is “likely” that the Arctic will see its first ice-free summer by 2050...  
@CarbonBrief ”

“ Right now, we are facing a man-made disaster of global scale. Our greatest threat in thousands of years. Climate change.  
David Attenborough ”

### SCOTLAND

Although just a small part of the puzzle, Scotland and the UK must play its part in reducing global emissions. The Scottish Government has set a target for net zero carbon emissions in Scotland by 2045.

Renewable energy of all kinds will play a large part in meeting that ambition along with other initiatives such as decarbonising businesses and reducing energy emissions in the home.

Based on data from existing wind farms in Shetland, and Shetland's excellent wind resource, the Energy Isles Wind Farm is expected to be one of the most efficient wind farms in Europe, per unit of installed capacity.

“ Onshore wind generates over £18m each year for Scottish communities.  
Local Energy Scotland ”

“ Renewable and low carbon energy will provide the foundation of our future energy system, offering Scotland a huge opportunity for economic and industrial growth.  
Scottish Government<sup>2</sup> ”

<sup>2</sup> <https://www.gov.scot/policies/renewable-and-low-carbon-energy/>

### CONTINUING SHETLAND'S LEGACY

Shetland has a long and proud history of energy production and export, all while prioritising the protection of the local environment and strengthening the local community.

Shetland has always looked outward with a view to innovation and growth, while doing everything possible to secure a high standard of living for its communities for years to come.

Now with large scale renewable projects such as Energy Isles and plans for interconnectors to Scotland and Norway, Shetland has the opportunity to once again use its experience to further strengthen its communities and also to look outward and help to tackle climate change.



LUGGIE'S KNOWE WIND FARM, LERWICK



UNST FERRY, BELMONT



CATERING REQUIREMENTS



SANDS OF BRECKON | BRECKON, YELL



## FREQUENTLY ASKED QUESTIONS (FAQS)

### WHY HAVE THESE TURBINE SIZES BEEN SELECTED?

- The tip height we have selected means we can choose a turbine model that maximises output.
- Heights have been modified in response to feedback from the local community and statutory consultees.
- We want to ensure that we are able to take advantage of the latest technology by the time the site is constructed.

### WILL THE TURBINES HAVE TO BE LIT AT NIGHT?

- In the submission, the worst-case scenario has been assessed.
- We are in consultation with Civil Aviation Authority (CAA) to determine how the lighting requirements can be minimised. We are currently exploring options.

### HOW HAVE LOCAL PEOPLE BEEN CONSULTED?

- As part of the community consultation, three separate series of exhibitions have been held as the project has evolved, in June 2018, February 2019 and February 2020. The Energy Isles team have also held discussions involving Local Energy Scotland and the local community about the potential of Shared Ownership in the project.
- We have also established a Community Liaison Group (CLG) with representatives from Community Councils from Yell, Unst and Fetlar.

### HOW WILL LOCAL BUSINESSES BENEFIT?

- The development and construction phase is expected to bring £20.3m of investment to Shetland.
- We want to work with local businesses and have already held two Supplier's Day events in Yell and Lerwick in partnership with HIE, with over 100 attendees.
- We are a member of the Shetland Renewables Business Network (SRBN), working with others in the sector to engage the local supply chain.
- We have a dedicated supplier page on the website and provide online registration for local businesses.
- We will work with Train Shetland, local suppliers, schools and others to maximise the benefits to Shetland's local economy and business network.

### WHAT HAS BEEN DONE TO MINIMISE ENVIRONMENTAL IMPACT, PARTICULARLY ON BIRDS AND PEAT?

- We have sought to design the layout of the site to protect feeding for local bird species. All of our on-site surveys have been agreed by statutory consultees such as SNH, SEPA and following best practice guidance.
- The revised scheme also reduces the volume of peat that would be disturbed.
- According to the Scottish Government Carbon Calculator, the Energy Isles project will pay back all the carbon used, including the effects to the peat, in around 2 years.

### HOW CLOSE WOULD THE NEAREST PROPERTY BE TO THE WIND FARM?

- As a result of feedback, we have reduced the height of the three turbines closest to residential properties.
- The nearest inhabited property is 1.6km from the closest turbine (T20).

### CONTACT US

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