



# ENERGY ISLES LTD

## WIND FARM

### HELPING TO BUILD A SUSTAINABLE FUTURE

A warm welcome from Energy Isles to this exhibition which is designed to update you on the progress of the proposed Energy Isles Wind Farm.

Members of the Energy Isles Team are on hand to answer any questions you may have, so please do feel free to ask. Thank you for taking the time to attend.

#### A LOCAL ENTERPRISE

Energy Isles was conceived in February 2014 by a consortium of 18 local companies operating in fisheries, aquaculture, farming, crafting, marine engineering and support services; at this time, the enterprise comprises 37 companies.

Energy Isles was created to develop a plan for a wind farm in the north of Yell. We have a strong desire to ensure that the considerable benefits of additional renewables developments in Shetland are enjoyed locally and we believe that responsible development involves consulting widely with our local communities.



For more information please visit

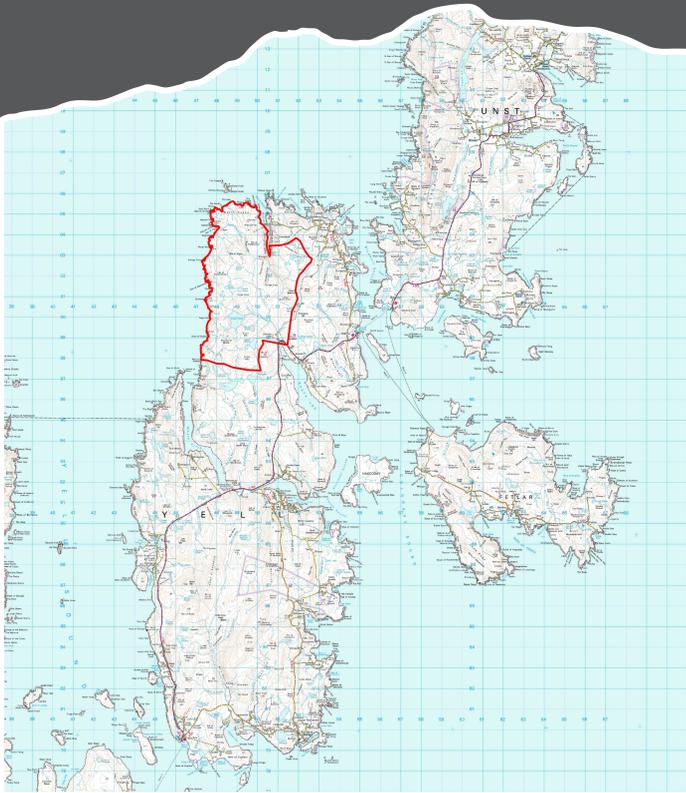
[www.energyisles.co.uk](http://www.energyisles.co.uk)



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### ABOUT THE PROPOSAL



#### CURRENT FACTS AND STATS

Number of Turbines	Up to 50
Turbine Tip Height	Up to 200 mtrs
Lifespan of Wind Farm	25 years
Location	North Yell
Energy Generation	Based on 200 MW installed capacity

The location for the Energy Isles wind farm has been selected for the following key reasons:

- ▶ **Great wind speeds;**
- ▶ **A rare opportunity to diversify and develop our local economy;**
- ▶ **To contribute to Shetland's energy mix.**

In 2017 we asked the Energy Consents Unit for their formal opinion on the information we would need to supply in our Environmental Statement and we are currently in the early stages of our Environmental Impact Assessment (EIA) based on their response.

The design of the Energy Isles Wind Farm will continue to evolve as the survey work progresses. Following completion of the site surveys, all survey results, technical constraints and feedback from the local community consultation will feed into a design process to ensure the final design of the wind farm is appropriate for the site.

Our initial scoping layout at the site included 63 turbines; however, results of surveys to date have already reduced the number of proposed turbines from 63 to 50.

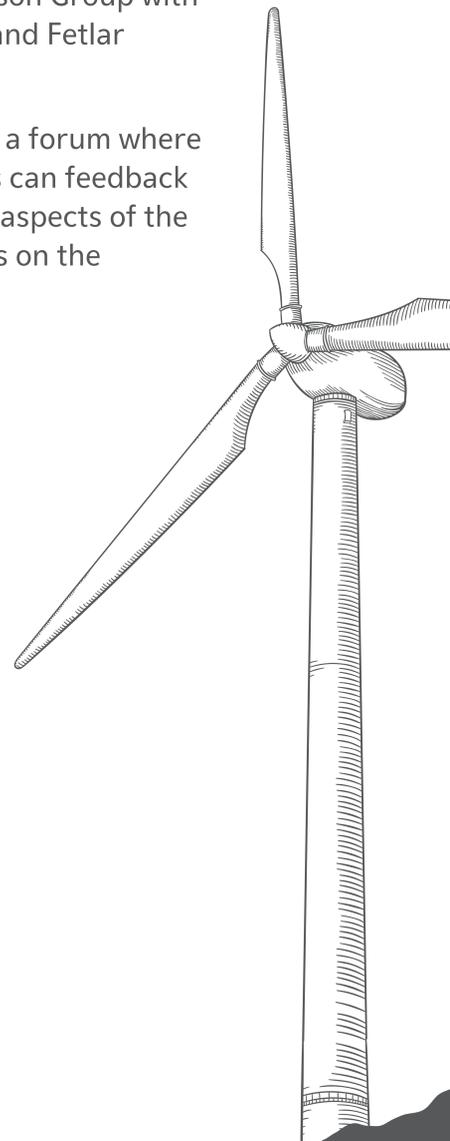
The final layout will be assessed within an Environmental Statement, which will be submitted with the planning application in 2019.

#### IN TOUCH WITH COMMUNITIES

Energy Isles wants this unique development to have a positive and lasting impact on those who live and work in the North Isles and across Shetland.

Therefore, we have established the Energy Isles Wind Farm Community Liaison Group with members of the Yell, Unst and Fetlar Community Councils.

The Liaison Group provides a forum where community representatives can feedback your valued opinions on all aspects of the project and receive updates on the proposed development.



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# ENVIRONMENTAL IMPACT ASSESSMENT

The Environmental Impact Assessment (EIA) is a process undertaken by specialist environmental and technical consultants. In consultation with regulatory and voluntary bodies, the EIA seeks to identify and evaluate the likely effects of the proposed Energy Isles Wind Farm on the environment. It also identifies measures to mitigate or manage any adverse effects. The results and findings of the EIA are detailed in an Environmental Statement (ES) which will be submitted with the planning application.

The plan shows the study area where we are undertaking further survey work and site analysis. The ongoing surveys will continue to shape the design of the proposed wind farm.

As a result of the scoping responses and other consultations undertaken so far as part of the EIA process, the following issues are being technically assessed in the ES:

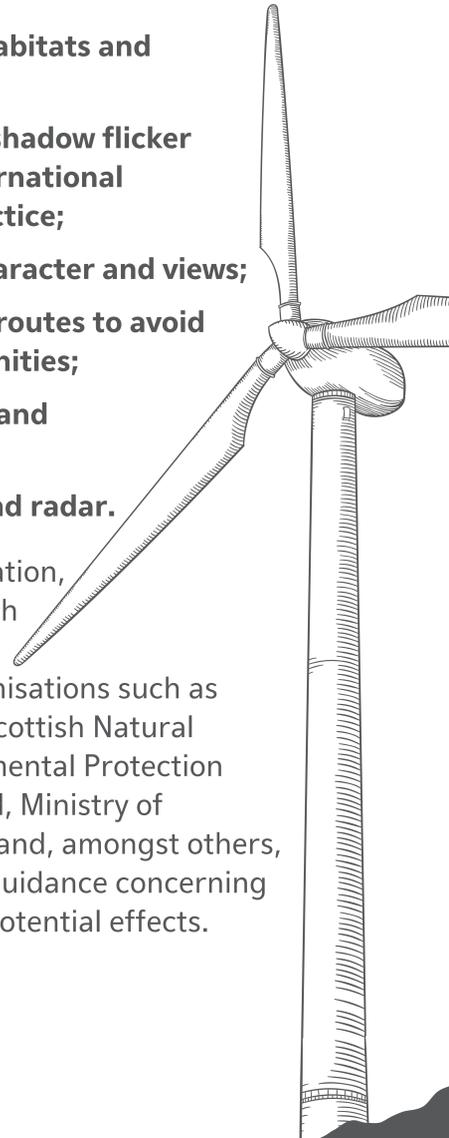
- ▶ **Landscape and Visual Effects;**
- ▶ **Ecology;**
- ▶ **Ornithology;**
- ▶ **Noise;**
- ▶ **Hydrology, Hydrogeology and Soils;**
- ▶ **Cultural Heritage;**
- ▶ **Transport and Access;**
- ▶ **Socio-economics and Recreation; and**
- ▶ **Infrastructure, Aviation and Safety.**



Part of the EIA assessment includes site surveys which are currently ongoing. Once these surveys are complete, the results will feed into the final design of the Energy Isles Wind Farm to ensure that the layout and infrastructure are sited sensitively to:

- ▶ **Minimise effects of the proposed Energy Isles Wind Farm;**
- ▶ **Not disturb sensitive habitats and species;**
- ▶ **Ensure that noise and shadow flicker levels comply with international guidance and best practice;**
- ▶ **Maintain landscape character and views;**
- ▶ **Design transportation routes to avoid disturbance to communities;**
- ▶ **Ensure aircraft safety; and**
- ▶ **Avoid interference to telecommunications and radar.**

As part of ongoing consultation, Energy Isles and the Scottish Government have called upon the expertise of organisations such as Shetland Islands Council, Scottish Natural Heritage, Scottish Environmental Protection Agency, Transport Scotland, Ministry of Defence, and Historic Scotland, amongst others, to provide comments and guidance concerning the design of the site and potential effects.



For more information please visit

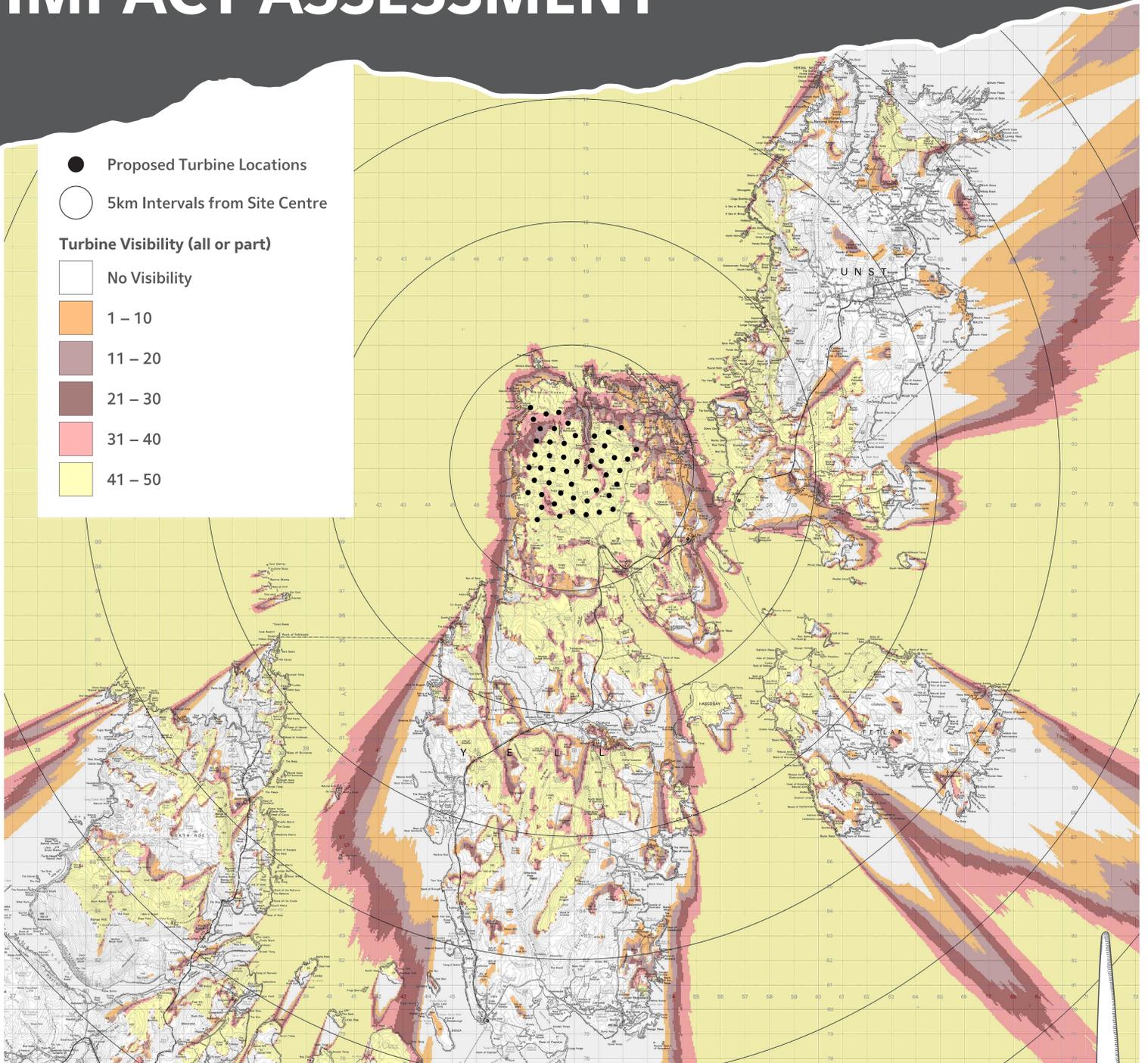
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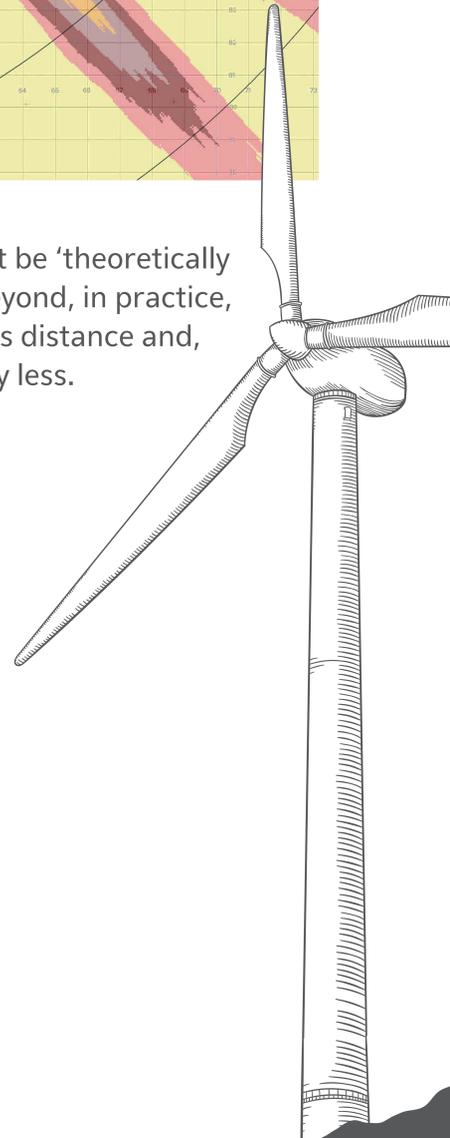
# LANDSCAPE AND VISUAL IMPACT ASSESSMENT



A full landscape and visual impact assessment based upon a selection of key viewpoints has been agreed with Shetland Islands Council and Scottish Natural Heritage, and is being completed to support the planning application.

The maximum potential visibility of the wind farm in the surrounding landscape is illustrated by the Zone of Theoretical Visibility (ZTV). The ZTV does not allow for the consideration of buildings and other vertical structures which can obscure actual visibility on the ground.

So whilst a wind farm might be 'theoretically visible' out to 35 km and beyond, in practice, the impact is minimal at this distance and, in fact, may be considerably less.



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# CLIMATE CHANGE AND ENERGY SECURITY

### OUR FUTURES ARE AT STAKE

Since the dawn of industry, we have been using oil, coal and gas to provide us with the power we need to thrive and prosper. As a result, we are now facing the biggest environmental challenge of all time - global warming.

Around the world sea levels are rising, landscapes are changing, and whole species are disappearing. The seas around Scotland have warmed by up to 1°C over the last 20 years. Warmer seas have prompted changes in the composition, abundance and distribution of a number of marine species, including plankton, fish, sea birds, whales, mammals, dolphins and porpoise.

Here in Shetland, we see the effects of climate change on our native species and more frequent severe weather incidents causing disruption to normal services.

We cannot continue releasing carbon into the atmosphere. Not just because it contributes to the rise in temperature, but because our ever-increasing demand for energy is rapidly diminishing finite stocks.

Fortunately, we have the technologies to replace fossil fuels with sustainable energy systems based on the efficient use of renewable energy. Renewable energy is harnessed from limitless natural sources - our sun, our wind and our water provide clean, natural alternatives.

### ONSHORE WIND

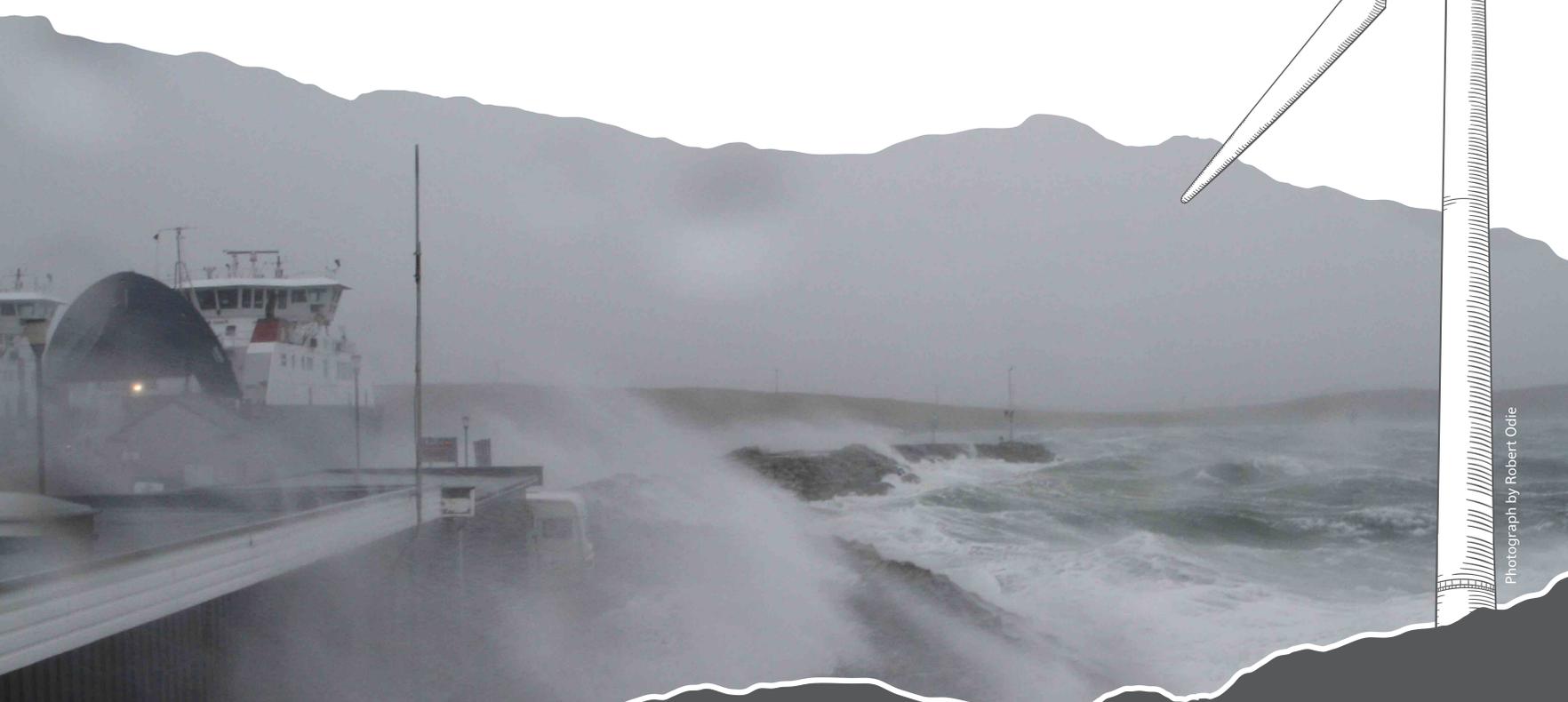
As the most well-established and cost-effective source of renewable energy, onshore wind is expected to continue making an affordable, clean and significant contribution to the UK's energy mix.

Shetland has a world-class wind resource, and is well placed to help the UK and Scotland deliver on its targets.

### SECURITY OF SUPPLY

As the world's indigenous sources of fossil fuels are depleted, energy security becomes an increasingly important consideration due to the vagaries of global politics and the rise of energy prices on the world market.

By investing in renewable energy solutions Shetland has the opportunity to continue to export energy using our natural resources.



Photograph by Robert Ocie

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# THE LOCAL ECONOMY, EMPLOYMENT AND BUSINESS OPPORTUNITIES

### CREATING JOBS, BOOSTING ECONOMIES

The renewable energy sector in Scotland is now a significant contributor to the local, regional and national economy. If the Energy Isles Wind Farm is consented, there are very clear economic and industrial benefits to be delivered during the construction and operational phases of the project and we will invite local companies to tender for contracts.

We would hope to procure from a range of local services including construction companies, drainage contractors, concrete suppliers, metal fabricators, plant hire, cleaning, waste management, security, fencing contractors and catering and accommodation suppliers.

There will also be operational and maintenance jobs during the lifetime of the wind farm that could draw on the renewable expertise that is building in Shetland and throughout Scotland.

By using the local workforce where possible, the development can have a direct and positive effect on the local economy.

Companies can register their interest by emailing us now at: [www.energyisles.co.uk/suppliers](http://www.energyisles.co.uk/suppliers)

### MEET THE BUYER DAY

There are over 58,000 jobs in the low carbon and renewable energy economy in Scotland across 9 renewable energy sectors\*. We will be holding a 'Meet the Buyer Day' later this year to introduce local businesses to the opportunities the Energy Isles Wind Farm offers.

\*<http://www.gov.scot/Topics/Business-Industry/Energy/Facts>

### OPPORTUNITIES

By creating new employment opportunities, commercial openings for local businesses and providing substantial funding for projects that could help transform the facilities that local people are able to enjoy for decades to come; the Energy Isles Wind Farm has great potential to make a really positive impact in the local area.



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## COMMUNITY BENEFIT

### **VOLUNTARY COMMUNITY FUND**

In consultation with the local Community Liaison Group, Energy Isles will establish a dedicated Fund for the Energy Isles Wind Farm.

The potential community benefit fund for an operational Energy Isles Wind Farm of more than 100MW installed capacity will be at least £500,000 per annum and could be considerably more depending on its final design. This equates to more than £12.5 million over the lifetime of the wind farm.

### **NEXT STEPS**

We are actively encouraging people to let us know their views on this proposal and how the local community could benefit.

Energy Isles would like to explore, with local communities, the establishment of such a fund to promote projects to enhance the quality of life for local communities and visitors through investment in the natural, built and cultural heritage.

We believe that such a fund would be a rare opportunity to invest in our community and create a legacy that will outlast the turbines and provide the catalyst to allow the advancement of further job creation and business opportunities in the area.



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### YOUR VIEWS ARE VERY IMPORTANT TO US

Please register your comments and suggestions by handing your completed registration card to one of the Energy Isles team.

Thank you for attending today's public exhibition.

#### CONTACT INFORMATION

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