Islands Council

## What is the Orkney Community Wind Farm Project?



EProject locations $\qquad$ 20 km 20 km

- The project is seeking to develop wind farms in Orkney with the aim of:
$\checkmark$ Generating income from publicly owned wind energy projects to support services for local communities.
$\checkmark$ Supporting a case for a new cable for Orkney to open up wider economic development opportunities for the energy industry, including marine energy.
$\checkmark$ Ensuring that the local benefits from a new cable are maximised.
$\checkmark$ Making the most of our resources.
- Early development activity will be funded from the Council's Strategic Reserve Fund.
- Three sites are under consideration.

Hoy
Seven turbines 150m tip-height 28MW total Privately owned land

Quanterness
Six turbines 150m tip-height 24MW total
Privately owned
land

## Income and community benefits



Council-owned wind farms would have the potential to generate a significant income every year helping us tackle the twin challenges of reducing budgets and increasing demand for public services for everyone from the young to the elderly.

As well as creating jobs through development, build, operation and decommissioning stages, all profit would stay with local people here in Orkney. This money could be spent when it is earned to:

- preserve and enhance Orkney services like social care, education, roads and transport.
- fund an Orkney community benefit scheme which would provide a foundation for communities to drive transformational projects of their own.
- provide the local communities with a direct community payment for hosting the wind farm.


## Creating a carbon neutral future



In our Council Plan we have a target outcome for, "A vibrant carbon neutral economy which supports local businesses and stimulates investment in all our communities."

National targets are:

- By 2030, the equivalent of $50 \%$ of the energy for Scotland's heat, transport and electricity consumption to be supplied from renewable sources.
- By 2050, to reduce emissions by at least $80 \%$ of 1990 levels.

Orkney produced $120 \%$ of its electricity needs in 2017/18, but there is still so much more we can do to decarbonise our agriculture, heating, and transport."

Islands Council

## Securing a new cable



By developing these wind farms we can join other local developers in making the case to OFGEM for a new interconnector for Orkney, giving Orkney more chance of getting a new cable and all the benefits it could bring.

A new interconnector could bring hundreds of millions of pounds of economic benefit to Orkney, supporting our existing renewable energy sector and securing the future development of the marine energy sector by putting the necessary infrastructure in place.

OFGEM has said that to justify the cable Orkney needs projects adding up to 135MW, but we don't know all the conditions yet. It's likely that the Council will need to contribute a substantial proportion of this generation.

## What are the benefits for Orkney?



## Why have we chosen these particular sites?

## Faray

This uninhabited island was bought by the Council in January 2019 for its strategic development potential. It is probable that only one year of survey work will be required.

- Constraints
$\checkmark$ There are limited options for wind farm development sites in Orkney due to the spread of houses and designated areas for wildlife.
$\checkmark$ Some of the feasible sites are being developed by private companies.
- Scale
$\checkmark$ We need enough Orkney projects to trigger a new cable.
$\checkmark$ We need wind farms that are big enough to be financially viable in a low subsidy environment.


## Hoy

This area was originally chosen as the largest area away from homes and designated sites with the potential for 100MW. Initial scoping and bird surveys have shown that the site could more realistically offer 28 MW .

















ORKNEY
ISLANDS Council


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## Hoy - Latest Design December 2018

View to Hoy Wind Farm from Longhope Pier


Turbine Tip Height 150 m Turbine Hub Height 92 m
View to Hoy Wind Farm from Lyness Pier


View to Hoy Wind Farm from Lyrawa Hill

## What's happening next?

ISLands Council
Continue discussions with stakeholders

Explore options for delivery of community benefit - we want your opinions

Keep you updated on developments

Commence full Environmental Impact Assessment including the following studies:

- Bird surveys
- Ecology and cultural heritage
- Geology and hydrology
- Noise and shadow flicker
- Landscape and Visual
- Traffic and access
- Socio-economics and recreation
- Aviation and telecommunication

Undertake wind resource measurement

Re-design layout based on studies and feedback

