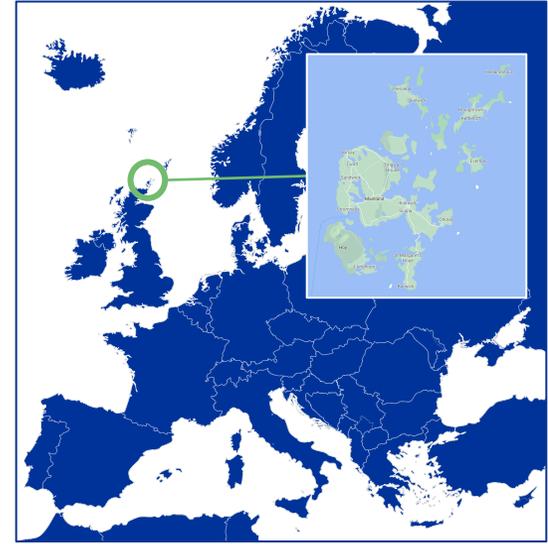


The EU Islands Facility NESOI is pleased to introduce the clean energy projects receiving its support:

## GO(H2)ME

### Green Orkney Hydrogen Market Expansion



“ The project has the potential to significantly reduce air pollutants, both locally in Orkney and in the mainland events switching from portable diesel generators to green hydrogen ”

<b>Country</b>  UK	<b>Islands</b> ORKNEY ISLANDS	<b>Project promoter</b> PlusZero Limited	<b>Sector</b> Hydrogen	<b>Project value</b> 900,000 €
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#### What is the project about?

- The Orkney Island archipelago has abundant wind and marine resources and currently produces more electricity than it consumes. Orkney has also become a UK leader in the adoption of green hydrogen. Future expansion of local renewables and hydrogen production on Orkney is limited by the relatively small size of local markets, electricity interconnector constraints and the lack of transport mechanisms for moving hydrogen from the Island to the mainland.
- The project is a feasibility study aiming to identify a safe and viable transport logistic solution for the transportation of green hydrogen gas produced on Orkney to the mainland with the aim of replacing diesel fuelled generators with a zero carbon and zero pollution alternative.

#### How will the EU Islands Facility NESOI support the project?

- Assessment of local green hydrogen production potential
- Identification of suitable technological options for green hydrogen storage in Orkney and transportation
- Cost Benefit analysis; socio-economic and environmental impact evaluation
- Health, Safety and Risk analysis for the identified solutions
- Business modelling and identification of target stakeholders to kick-off a green hydrogen value chain in Orkney
- Identification of financing/funding options
- Action plan for the roll-out of a green hydrogen value chain in Orkney



*Wind turbines on the isle of Sanday, Orkney archipelago*

(Photograph: Michael Roper/Alamy Stock Photo)