

SHORT STUDY TOUR



THE ORKNEY ISLANDS



The European Islands Facility NESOI aims to unlock the potential of EU islands to become the locomotives of European Energy Transition. To do so, NESOI aims to mobilize more than €100 Million of investment in sustainable energy projects to give EU islands the opportunity to implement energy technologies and innovative approaches, in a cost-competitive way. NESOI has selected 56 such projects across the European Union and provide them with financial resources and technical support.



NESOI – ORKNEY SHORT STUDY TOUR


ABOUT

THE PROGRAMME

ERASMUS SHORT STUDY TOURS :
Knowledge sharing, capacity building and networking for investible energy transition projects on islands



HOSTED by The European Marine Energy Centre Ltd (EMEC)

 Country : UK, The Orkney Islands, 9th-12th, May 2023



Topics:

Marine Renewable Energy | Green Hydrogen



OBJECTIVES

1. Stimulate staff exchange of islands' actors
2. Encourage the exchange of best practices among islands
3. Ensure knowledge exchange between NESOI projects beneficiaries and the community
4. Support potential replications of NESOI methodology

STT PROGRAMME

Share NESOI projects best practices
Legal frameworks

Forum with other project developers

Exchange with stakeholders
Sites/Labs visits

Fast capacity building,
EU tools hand on sessions
NESOI platform

Social programme

IMPACTS

Well-shaped
Investible
Energy projects

Improve project
Development
capacity

Networking

ORKNEY SST - SESSION INSIGHTS

The Orkney Islands energy landscape and activities

Island decarbonisation, EU examples

Marine Renewable Energy projects

Discover EMEC facilities at Stromness

Hydrogen and clean vessels

Electrolyser and tidal test site visit



HOST

Host: EMEC: Established in Orkney in 2003, EMEC is the world's leading test facility for wave and tidal energy converters and has hosted more ocean energy technologies in the seas around Orkney than anywhere else in the world. The centre offers independent, accredited grid-connected test berths for testing full-scale prototypes, as well as test sites in less challenging conditions for use by smaller scale technologies, supply chain companies, and equipment manufacturers.

EMEC is committed to supporting the transition to a low carbon future and has expanded activities into new sectors including green hydrogen. The centre operates a R&D ecosystem integrating hydrogen production facilities with battery technology and wind and tidal energy. The world's first tidal-powered hydrogen was generated at EMEC's tidal test site in 2017.

SST3 Programme

During the study tour, participants will witness the innovation taking place across the Orkney Islands to harness the natural energy resource and hear from some of the local organisations driving the low carbon initiatives. We will have a chance to visit EMEC's test and demonstration facilities including grid-connected wave test site, Billia Croo, located on the west coast of the Orkney mainland. The tour will also take us to the island of Eday where we will visit EMEC's Caldale site to learn more about the onshore facilities and how hydrogen is produced from tidal and wind energy and then stored. On the return boat trip, there will be an opportunity to pass by the grid-connected tidal test site Fall of Warness just off the coast of Eday, where there are tidal developers are currently testing.

In addition to site visits, some of our time will be spent at the EMEC offices, where we will hear from guest speakers and facilitate a knowledge exchange between projects and partners.



**PARTICIPANTS
FROM 7 COUNTRIES**

