



Project Brochure

Introducing HUGE

The ambition of the HUGE project is to raise awareness of the use of green hydrogen as a viable energy vector for remote and rural communities in housing, transport, and industry.

Whilst many communities in the Northern Periphery and Arctic Programme Area are challenged by low economic diversity, result of their peripheral locations, dispersed demography and lack of critical mass, they have abundant amounts of renewable energy resources available locally.

The HUGE project aims:

- To **provide** communities with energy security and self-sufficiency through increasing awareness and facilitating uptake of hydrogen utilization from excess renewable energy.
- To **increase** the awareness of hydrogen as a viable energy option for a variety of end uses in the public infrastructure domain - housing, transport and industry.
- To **facilitate** the decision- making and implementation of hydrogen solutions for public infrastructures and energy storage, suitable for cold climates and dispersed settlements.

The HUGE project will achieve this through:

- **Providing** the necessary tools to assess the hydrogen renewable energy chain opportunities in the NPA area and beyond.
- **Increasing** readiness to invest in integrated hydrogen solutions suitable for constructing, maintaining and running housing and public infrastructures.
- **Facilitating** decision- making by building capacity in infrastructure providers to exploit the abundance of natural resources to their full potential through raising awareness about the benefits that can be delivered by employing a hydrogen economy.

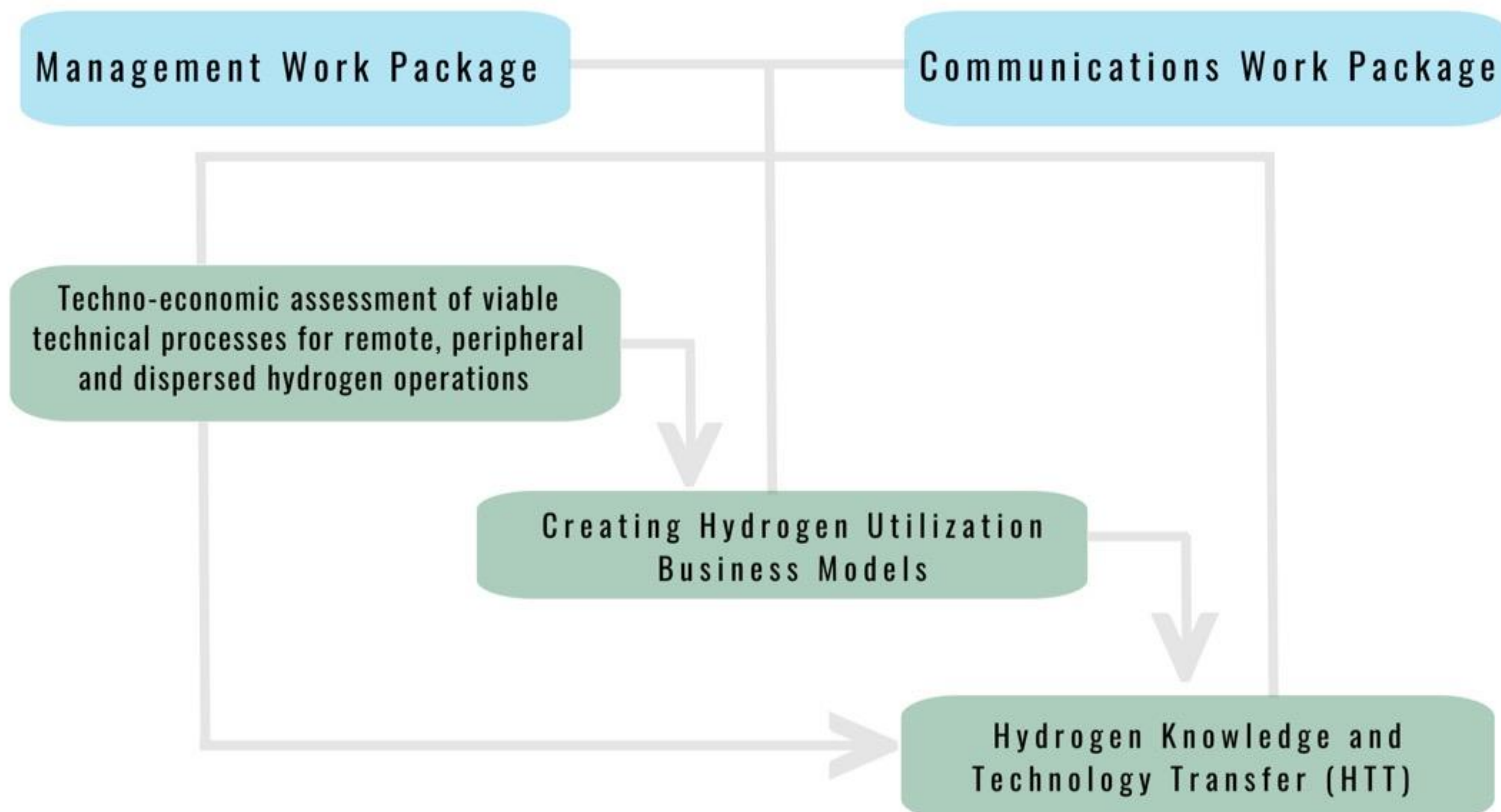
The Hydrogen Utilization & Green Energy (HUGE) project is a €1.4 million 3-year project. The project is funded by the Northern Periphery and Arctic (NPA) Programme and is lead by the Environmental Research Institute, North Highland College UHI. The project runs from mid 2019 to mid 2022.

For more info on the project and to sign up to our mailing list please email info@huge-project.eu





The HUGE Project Structure



TEA Tool

The TEA tool will combine process modelling and engineering design with economic evaluation. The TEA tool, will increase readiness to invest in hydrogen utilization solutions suitable for constructing, maintaining and running housing and public infrastructures in cold climates and dispersed settlements.

Lead Partner: Action Renewables

HUB Model

The HUB model will contain generic scenarios, implications and guidance for creating business models for hydrogen product and service development. It will also outline relevant management tools and knowledge required to orchestrate the ecosystem.

Lead Partner: LUT University

HTT Platform

The hydrogen knowledge transfer platform will promote knowledge sharing and information exchange between actors in the hydrogen energy in conjunction with small scale renewable energy production, supply and demand, and transport to end user.

Lead Partner: National University Ireland Galway



HOT Service

The TEA Tool, the HUB Model, and the HTT Platform will combine to provide the Hydrogen Operational Technical (HOT) Service.

The HOT service, will foster more robust and dynamic communities by allowing them to exploit the abundance of natural resources to create a versatile business sector & energy resilience through storage. This will positively affect the economic, social and demographic development in the partner areas.

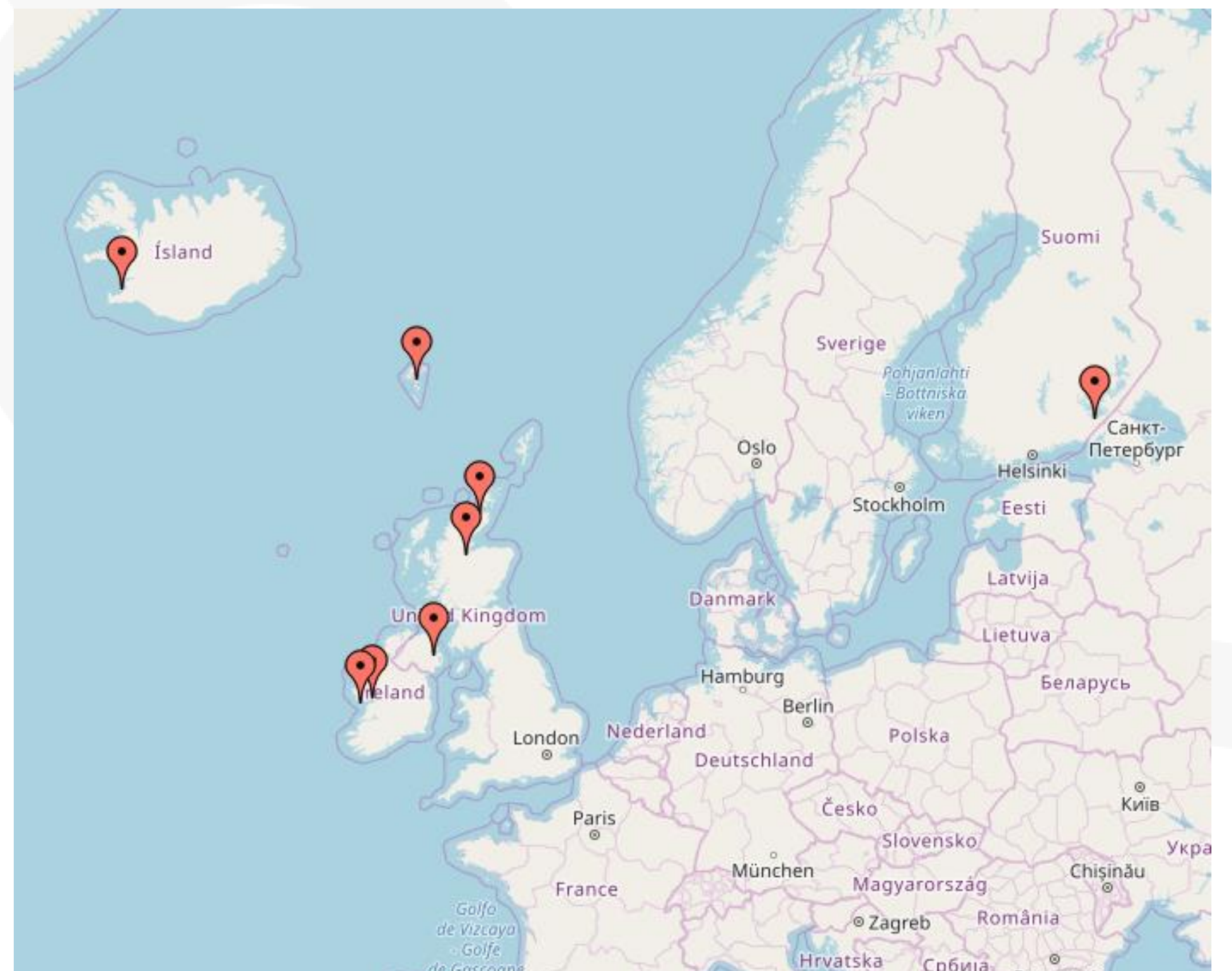
The HOT service will be transboundary and will allow a variety of stakeholders and end-users in the public infrastructure domain and beyond a full economic utilisation of the plentiful renewable resources that surround them by catalysing a hydrogen economy.

Available to all stakeholders and end-users throughout the NPA region, the HOT Service will also link with regions outside of the partnership and with other European initiatives.

For more information on the HOT Service please contact:

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HUGE Partners



The HUGE Project is led by the Environmental Research Institute, North Highland College, University of the Highlands and Islands, Scotland.

Project partners can be found from across the Northern Periphery and Arctic Programme Region.

Project partners include:

- The Highland Council (Scotland)
- Action Renewables (Northern Ireland)
- University of the Faroe Islands
- Lappeenranta University of Technology
- National University of Ireland Galway
- Icelandic New Energy
- Aran Islands Energy Coop





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Northern Periphery and
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2014–2020



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