Objectives:

- To promote regional accessibility strategies
- To promote environmentally responsible energy production practices
- To promote the development of multi-modal and transnational transport corridors
- To promote the development of efficient and effective logistics solutions
- To promote sustainable growth solutions for expanding areas

Partners:

Aberdeen City Council, UK
www.aberdeencity.gov.uk

HFC Co-operative Ltd, County Durham, UK
www.hfc-cooperative.com/

Europaisches Institute for Innovation, Bremen, Germany www.eifi.eu

WaterstofNet, Turnhout, Belgium
http://www.waterstofnet.eu/

Gateshead College, Gateshead, Tyneside, UK
www.gateshead.ac.uk

Green Network, Sydjylland, Denmark
http://www.greennetwork.dk/

Hydrogen Sweden, Vastra Gotalands, Sweden
www.vatgas.se

SP Technical Research Institute of Sweden, Vastra Gotalands, Sweden
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H^2 HyTrEc

Hydrogen Transport Economy for the North Sea Region

The Interreg IVB North Sea Region Programme

EUROPEAN REGIONAL DEVELOPMENT FUND

H^2 HyTrEc

The HyTrEc project aims to improve access to and advance the adoption of hydrogen as an alternative energy across the North Sea Region. The project will identify and address structural impediments constraining development of, access to and adoption of this alternative fuel in urban and rural settings.

Oil and gas technologies have dominated the energy and transport sectors and enjoyed the benefits of scale effects, and of on-going technological improvements. In what is effectively a monopoly situation, it is difficult to develop less mature alternative technology solutions.

This is particularly true of hydrogen technologies, which if used in association with fuel cells, could replace the conventional duo formed by hydrocarbons/combustion systems (engines, turbines, etc.) delivering significant economic and environmental benefits.

The HyTrEc project will support the validation, promotion and adoption of innovative hydrogen technologies across the North Sea Region, enhancing the region's economic competitiveness within the transport and associated energy sectors.

HyTrEc will provide a platform to support the collaborative development of strategy initiatives and that will inform and shape the development of infrastructure, technology, skills and financial instruments to support the application of hydrogen based technologies across the region.

Partners from the UK, Germany, Denmark, Belgium, and Sweden are coming together to improve cross border collaboration, share best practice and support joint activities.

The project will establish a transnational network which will improve accessibility to hydrogen across the North Sea Region as an alternative energy by:

- Establishing a North Sea Hydrogen Transport Stakeholder Group, developing strategies and initiatives to create a fully functioning hydrogen corridor
- A transnational pilot study to improve the accessibility and connectivity of existing regional hydrogen corridors, supporting the development of hydrogen supply chain infrastructure
- Piloting a novel, portable hydrogen refueling station demonstrator
- Developing a North Sea Region education forum to identify skills gaps and develop training solutions
- Facilitating access to public and private sector financial instruments which support the development of hydrogen technology
- Supporting the development of SME clusters to deliver hydrogen infrastructure solutions