

## Objectives:

- Implementing innovative hydrogen transportation solutions involving vans, large trucks and refuse collection vehicles to advance the case for zero emission solutions for public and private sector fleets.
- Improving the supply chain and training so that the NSR becomes a Centre of Excellence for hydrogen transport.
- Developing innovative methods for the production, storage and distribution of green hydrogen.
- Complementing national programmes for hydrogen and facilitating joint NSR approaches and common standards.

## Partners:

### **Aberdeen City Council, UK**

[www.aberdeencity.gov.uk](http://www.aberdeencity.gov.uk)

### **Centre of Excellence for Low Carbon and Fuel Technologies, UK**

[www.cenex.co.uk](http://www.cenex.co.uk)

### **Aberdeenshire Council, UK**

[www.aberdeenshire.gov.uk](http://www.aberdeenshire.gov.uk)

### **European Institute for Innovation, Osterholz-Scharmbeck, Germany**

[www.eifi.eu](http://www.eifi.eu)

### **SP Technical Research Institute of Sweden, Vastra Gotalands, Sweden,**

[www.sp.se](http://www.sp.se)

### **Province of Drenthe, The Netherlands**

[www.provincie.drenthe.nl](http://www.provincie.drenthe.nl)

### **City of Groningen, The Netherlands**

[www.gemeente.groningen.nl](http://www.gemeente.groningen.nl)

### **UiT the Arctic University of Norway**

[www.uit.no](http://www.uit.no)



### **Lead Partner**

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**Interreg**  
North Sea Region  
HyTrEc2



European Regional Development Fund

EUROPEAN UNION

Stimulating Hydrogen Fuelled  
Transport Solutions for business,  
for the environment, for the  
future.



**HyTrEc<sup>2</sup>**

Hydrogen Transport Economy  
for the North Sea Region



## Pioneering

The HyTrEc 2 project aims to stimulate the take-up and application of green transport solutions for regional freight and personal transport across the North Sea Region (NSR). The project will address the challenges of reducing dependence on oil based transport by increasing the types of hydrogen vehicles available, looking at new ways of producing, storing and transporting green hydrogen and by improvements to the supply chain and training.

With 94% of transport currently oil based, green transport solutions such as hydrogen will play a key role in achieving EU energy and climate change targets. Hydrogen Fuel Cell Electric Vehicles (FCEV) have a longer range than electric battery vehicles. This extended range is essential in those North Sea regions which have numerous small sized cities with a large suburban and rural hinterland.

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

## Cooperation

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

- Testing a range of pre-commercialisation transportation technologies such as fuel cell, range extenders, and dual fuel vehicles.
- Investigate ways to improve production, storage and distribution of green hydrogen including use of solar and wind power.
- Develop the supply chain for green hydrogen transport and identify the training requirements and organisations that would benefit from training as well as identifying common rules and standards for the use of hydrogen in the transport sector.
- Trialing an APP that can be used transnationally to show the location of fuelling stations, their real time availability and safety standards etc.

## Collaboration

Currently there is market failure caused by the high cost of FCEVs and the need to make green hydrogen cheaper through more cost effective green hydrogen production, storage and distribution.

The Hytrec 2 project aims to create conditions so that a FCEV market can develop and promote the NSR as a Centre for Excellence for fuel cells and range extenders, as well as reducing the cost of hydrogen vehicles and reducing CO2 emissions.

HyTrEc 2 will provide a platform to support the collaborative development of strategies and initiatives and that will inform and shape the development of infrastructure, technology and skills to support the application of hydrogen based technologies across the region.

