

PROJECT

RH2INE Kick-start Study

Funding: European

Duration: Mar 2020 - Aug 2021

Status: Complete

Total project cost: €1,049,000

EU contribution: €524,500



Background & policy context:

The key barriers for the implementation of hydrogen in the inland waterway transport (IWT) sector are the lack of HRS and the scarcity of hydrogen-powered vessels. Without the necessary refuelling infrastructure, companies are reluctant to invest in such vessels.

Objectives:

The overall objective of the Action is therefore to stimulate HRS infrastructure through a supply chain based intervention (costs and benefit assessment) and kick-start investments in hydrogen-supply infrastructure.

Methodology:

These are to be achieved through four specific objectives:

- assessing the scenarios and framework conditions related to safety and regulatory requirements (Activity 1)
- designing the optimal layout and assessing its costs and benefits (Activity 2)
- assessing the optimal locations in the ports of Rotterdam, Duisburg and Neuss/Düsseldorf/Köln (Activity 3)
- disseminating the results for the rollout of HRS and feeding them into alternative fuel policy and plans (Activity 4)

Project management (Activity 5) is included to deliver the Action on time and within budget.

Parent Programmes:

[CEF Transport - Connecting Europe Facility \(CEF\) for Transport](#)

Institute type: Public institution

Institute name: Inea

Funding type: Public (EU)

Lead Organisation:

Provincie Zuid-Holland

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Partner Organisations:

Ministry of Economic Affairs, Innovation, Digitalization and Energy of the State of North

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Technologies:

Fuel cells and hydrogen fuel
Hydrogen refuelling station using ionic compressor

Development phase: Validation

Fuel cells and hydrogen fuel
Hydrogen storage system

Development phase: Validation

STRIA Roadmaps: Low-emission alternative energy for transport, Infrastructure
Water transport (sea &

Transport mode: inland)

Transport sectors: Passenger transport, Freight transport

Transport policies:

Societal/Economic issues, Environmental/Emissions aspects, Deployment planning/Financing/Market roll-out

Geo-spatial type: Infrastructure Node