



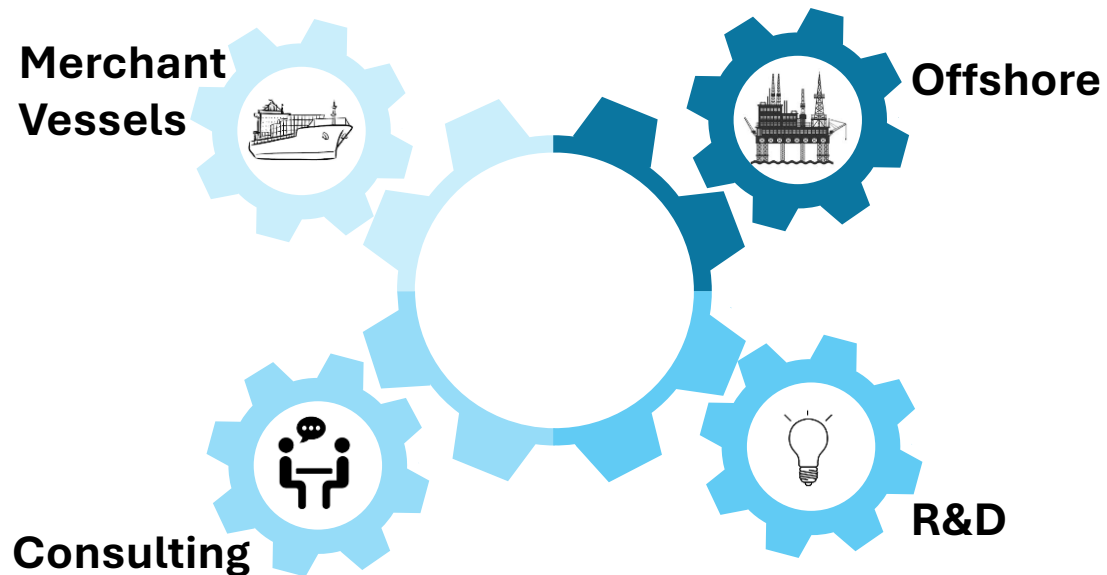
HYDROGEN PILOT SUMMIT

18th November 2024, Brussels



NAVALPROGETTI – WHO WE ARE

NAVALPROGETTI S.r.l., is a Ship Design Company of Naval Architects, Marine and Industrial Engineers and Ship Surveyors based in Trieste in Friuli Venezia Giulia region in northern Italy. The company was founded in 1975. We are specialized in **consulting, design and engineering**: from small concept developments to complete engineering packages in the Marine and Oil & Gas offshore fields. We offer services to the Marine and Offshore industries worldwide.



Navalprogetti's R&D activity started in 2012 driven by the growing interest in LNG as marine fuel, in order to reduce the pollutant emissions during navigation. The trend has developed further with the current focus on hydrogen.

A highly specialized team is able to assist the client from the design to the on-board integration and operational procedures preparation for **hydrogen implementation**, with particular focus on safety aspects.

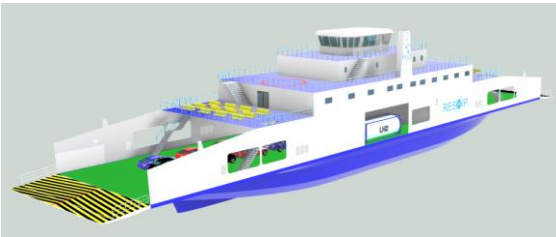
NAVALPROGETTI HYDROGEN PROJECTS EXPERTISE

April 2019



RESHIP

RESHIP – First H₂ R&D project concluded in Dec. 2021 with PEMFC mock-up & Approval in Principle



September 2021



LH₂ system onboard passenger ship - Feasibility Study for Viking Ocean Cruises

June 2022



sHYpS

Start of the EU co-funded project sHYpS, leaded by Navalprogetti

April 2023



Approval in Principle received from L'loyds Register for the Feasibility Study developed for the implementation on a Viking passenger vessel of an LH₂ system

Spring 2024

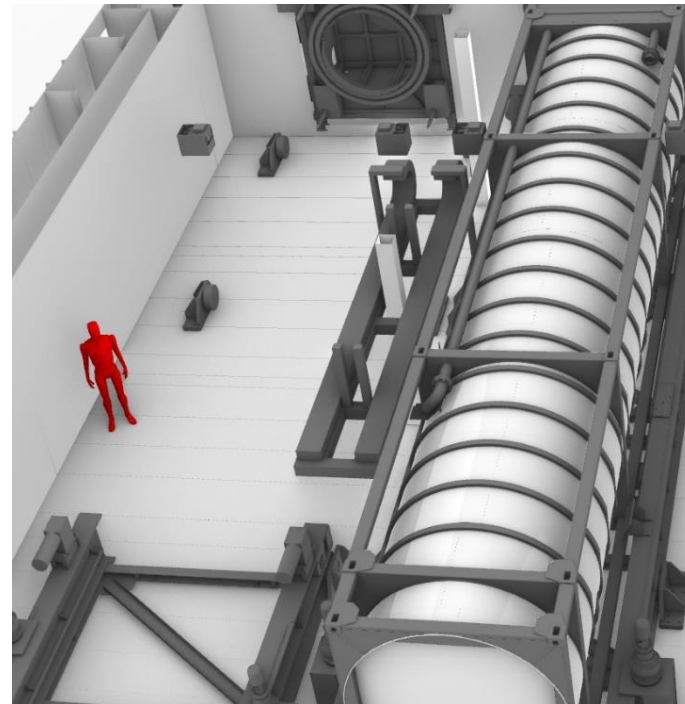
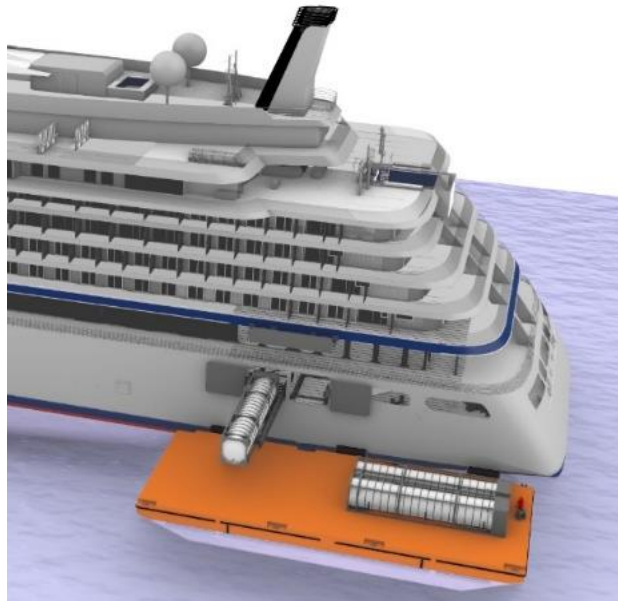
sHYpS RBC starts





June 2022 – May 2026

The project aims to develop a novel hydrogen storage intermodal **45' ISO c-type container** and the complete detailed design of a modular containerised **powertrain** based on optimised **PEM Fuel Cells** and their dedicated logistics.



The project will use the window of opportunity of a Viking Cruises' newbuilds vessel to install the storage system onboard with the **complete gas handling and energy management system**.

The project, thanks to its modular size, will enable the development of a system capable of sustaining a total power generation of 6 MW based on 16 fuel cell modules split in 2 containers.



Proposal for collaboration

We are currently working on two project ideas:

1. related to the hydrogen storage and refuelling

Searching for the following partnership for a research project:

- A company interested in the development of an innovative hydrogen containment system
- A company interested in the design and testing of an on-shore hydrogen infrastructure

2. related to the use of hydrogen for inland navigation

Searching for the following partner:

- A ship owner operating in inland waters, interested in the implementation of a hydrogen system on board



Contact details



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European Hydrogen Week
18 - 22 November 2024
Brussels, Belgium
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