

RESHIP

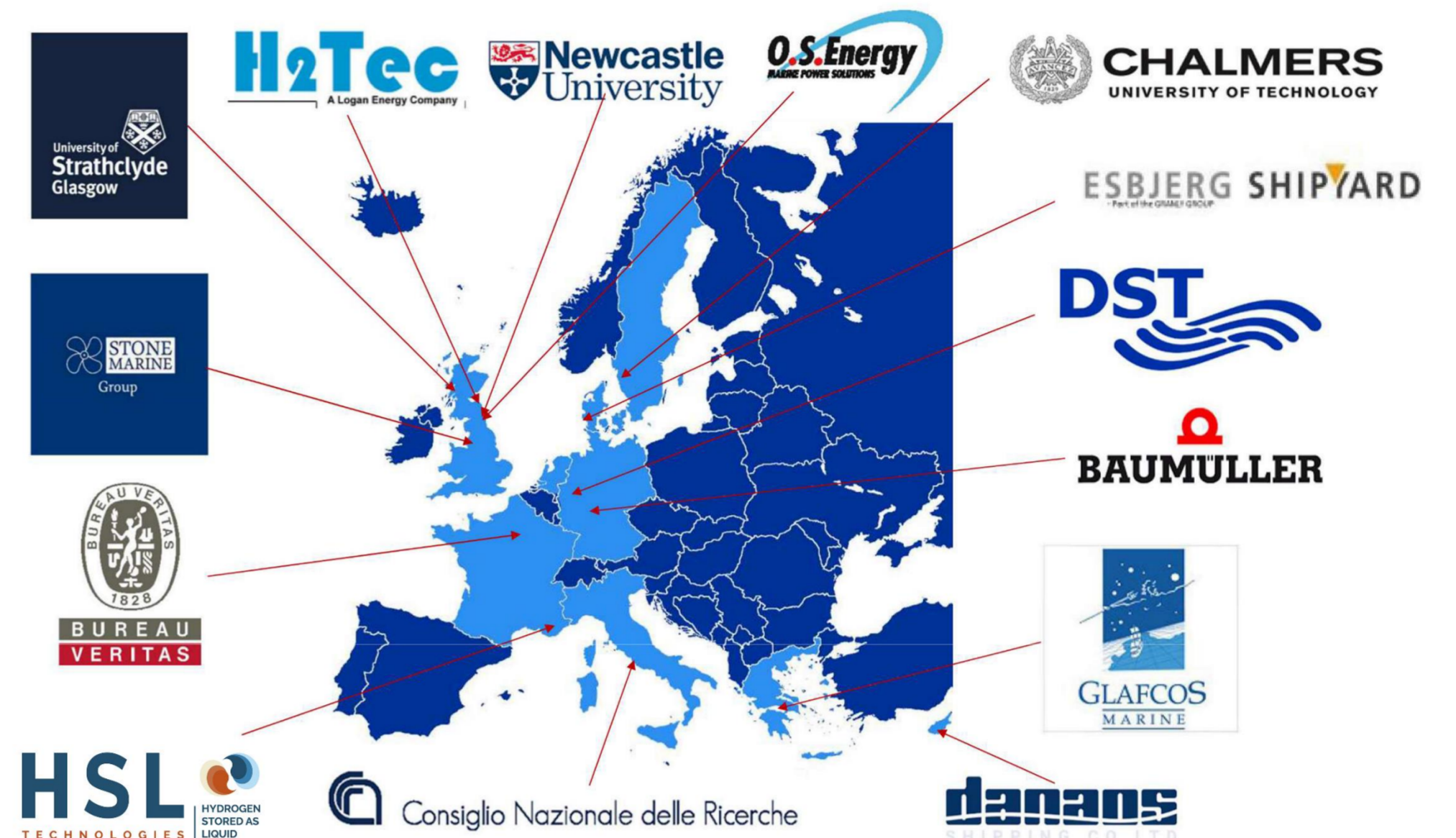
Redefine energy Efficiency solutions for hydrogen powered SHIPs in Maritime and Inland Transport



What is RESHIP about

RESHIP is a three year Project that aims at enhancing energy efficiency performance and at addressing the current challenges for hydrogen usage onboard, including high energy demand, abrupt power spikes, demanding energy storage requirements.

RESHIP brings together a team of world-leading multidisciplinary experts from Universities and Research Center, Shipyards, Industry and Classification Societies including key patent holders from both shipping and hydrogen sectors.



Research structure

The current research and findings are encouraging for Tubercle-assisted propellers (TAPs) and HydroSil technologies to be applied on hydrogen powered vessels. Further testing and validations are needed, together with a holistic design and optimisation study to maximise the technological impact. RESHIP project is organised in a three phased structure to step by step develop the technologies:

Phase 1, Key technology development

The consortium will focus on technologies around TAPs and HydroSil, to develop ESD solutions for hydrogen powered vessels and energy efficiency measures for onboard hydrogen utilisation.

Phase 2, System integration and demonstration

With the confidence built in Phase 1 studies, the consortium will focus on system integration study and demonstrator development.

Phase 3, Wider impacts and economic feasibility

The consortium will combine the work done in Phase 1&2 to further reflect the project findings and research outcomes to understand the potential impacts on the wider application of the developed technologies on new builds and retrofits for sea-going and inland vessels.

Objectives



RESHIP INFO

Funding Programme: Horizon Europe Framework Programme (HORIZON)
Call: Clean and competitive solutions for all transport modes (HORIZON-CL5-2021-D5-01)
Action: HORIZON-RIA HORIZON Research and Innovation Actions
Topic: Innovative on-board energy saving solutions (ZEWTP Partnership)

Duration: 3 years, September 2022 - August 2025
Consortium: 14 Partners from 9 Countries
Scientific Coordination: UNIVERSITY OF NEWCASTLE UPON TYNE
Project Coordination: HYSILABS
Total Budget: 3 758 912.50 €

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