



HARPOONERS

HIGH VOLTAGE, MODULAR AND LOW
WEIGHT ELECTRIC POWERTRAINS FOR
NEXT GENERATION WATERBORNE
TRANSPORT

CONTACT US

@ info@harpooners.eu

For more information,
please visit our website:

 www.harpooners.eu



Funded by
the European Union

WHO WE ARE

HARPOONERS is a European project focused on developing the next generation of high-voltage battery storage systems for maritime and inland waterway vessels. The project introduces a modular and flexible AC battery system concept that aims to revolutionize electrification in the shipping industry.

This European alliance, composed of 13 partners from seven European countries, brings together research centers, battery system manufacturers, power electronics experts, vessel owners, and Classification Societies, working together to achieve sustainable and efficient electric powertrains for waterborne transport.



OUR GOAL

HARPOONERS aims to advance electric propulsion technologies by developing lightweight, high-voltage battery storage solutions that enhance vessel efficiency and reduce environmental impact. The project fosters innovation through collaboration among key stakeholders, ensuring technological breakthroughs in the maritime sector.

INTERVENTION AREAS



High-Voltage
Powertrain
Development



Sustainability



Digitalization
& Safety

EXPECTED RESULTS

1

Development of a next-generation high-voltage battery system tailored for maritime and inland waterway applications.

2

Development of a cyber-secure and intelligent connected digital twin platform for monitoring and optimization of maritime electric powertrains.

3

Advancement in certification frameworks and safety standards to facilitate widespread adoption of new battery technologies.

4

Acceleration of commercial deployment through techno-economic analysis and exploitation strategies.



13

PARTNERS



7

COUNTRIES



3

YEARS



8

WORK PACKAGES



CALL

HORIZON-CL5-2024-D5-01-11 – Achieving high-voltage, low-weight, efficient electric powertrains for sustainable waterborne transport



7 COUNTRIES

Austria, Türkiye, Italy, UK, Belgium, Norway, Spain



PROJECT LIFETIME

3 years (01/02/2025 – 31/01/2028)