SEA, LAND AND PORT:
SMART INTEGRATION OF A HYDROGEN HIGHWAY

SUMMARY

The Maritime Hydrogen Highway project is a ground-breaking two-year, £2.1 million development programme, looking at the scope to establish a national hydrogen highway network, integrating land, sea and port. The elements making up the programme will together form a comprehensive picture of hydrogen network potential.

O.S. Energy and partners are working to bring a concept network of autonomous vessels transporting green Hydrogen from Offshore Locations to shore-based consumers. The company providing vessel operation and design work to the project ultimately presenting a concept design for the proposed Autonomous Network Transport at Sea (ANTS) ships.

The programme is part funded under the Smart Maritime Land Operations Call, a Maritime Research and Innovation UK (MarRI-UK) initiative supported by the Department for Transport (DfT). MarRI-UK is providing £1.3 million towards programme costs; the balance of funding is from the programme partners.

Modular, scalable design for a smart emission free Autonomous Network Transport at Sea (ANTS) ship

Development of soft- and hardware-based control technology allowing seamless operation of autonomous vessels for mooring, berthing and cargo operations in port and offshore terminals

Demonstrating the autonomous operations at model scale in Kelvin Hydrodynamic Laboratory.

PROJECT PARTNERS

Newcastle Marine Services

University of Strathclyde Glasgow

PORT OF LONDON AUTHORITY

University of Kent

UNIVERSITY OF BIRMINGHAM

CATAPULT Offshore Renewable Energy

MarRI-UK Research & Innovation