



ELEMANTA® H2 POWERBARGE - ROUEN

A floating, multi-service and emission-free solution for the decarbonization of the port of Rouen

Context

Based on the ELEMANTA® concept, developed by SOFRESID, a partnership made up of SOFRESID (EKIUM subsidiary), HDF ENERGY, AMETHYSTE, CETIM and RUBIS TERMINAL offers an innovative carbon-free floating solution for powering ships at quay from green hydrogen.

The electrical energy is produced from green hydrogen by a supply fuel cell HDF Energy will be distributed to tanker type ships calling at the RUBIS TERMINAL quay located in ROUEN. It replaces the use of on-board diesel generators and, therefore, reduces greenhouse gas emissions.

The ELEMANTA® PowerBarge solution is a solution to achieve the decarbonization objectives set by Europe (FIT55 / Fuel_EU Maritime).

Mission

- **Studies (barge / fuel cell / H2 storage / safety)**
- **Engineering/ Procurement and Construction Supervision / Commissioning Monitoring**
- **Certification of ELEMANTA® H2 PowerBarge**
- **Follow-up of the operational phase (30 months)**

Our strengths on this project

- Project funded by ADEME
- Project labelled Pole Mer Bretagne and CORIMER
- Development and expertise in the field of renewable energies and alternative fuels.
- In-depth knowledge of port and naval activities.
- Experience in integrating innovative energy solutions.
- Project in partnership with HDF ENERGY, AMETHYSTE, CETIM and RUBIS TERMINAL
- Working closely with HDF Energy to ensure project success



Market

Marine
Decarbonised energy generation

Role

Engineering

Cycle

Engineering / Supervision of procurement and construction / Follow-up of commissioning

Year

2021 - 2026

Location

Rouen (76) / FRANCE

