

# ZEPH2

## Hybrid hydraulically propelled vessel for crew transfer

### Mission

Development of a hybrid, hydraulically propelled crew transfer vessel for transporting personnel to offshore wind farms for maintenance purposes.

Hydrogen is used as fuel to power a fuel cell. This zero-emission mode is combined with conventional propulsion using a diesel engine. The hybrid mode reduces greenhouse gas emissions by 54%.

### Our strengths on this project

- Project management support for the construction of H2 passenger vessels,
- H2 bunkering concept, as part of a consortium
- Integration of a fuel cell, from prototypes to finished products, detailed design for high-stress naval applications.

### Specifications

Overall length	27.80 m
Width	9.00 m
Draught	1.5 m
Maximum speed	20 knots
Gross tonnage	< 500 GT
Engine power	2 x 600 kW
P.A.C. power	2 x 300 kW
Crew	3 people
Passengers	24 passengers
Payload	5 tonnes
Diesel	5 m <sup>3</sup>
Hydrogen	300 kg
H2 range	24 hours
Diesel range	48 hours



**Market**  
Marine  
Transport

**Role**  
Engineering

**Cycle**  
Design & engineering

**Year**  
[2023–2024]

**Location**  
Brittany, FRANCE

