



Clean maritime power

HYDROGEN POWER MODULE

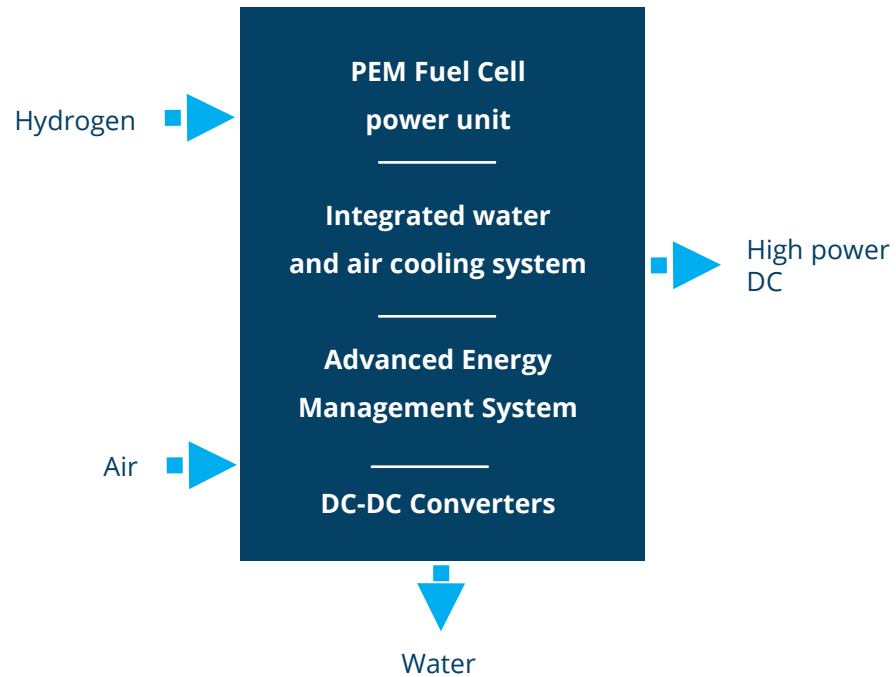
HPM-15 • HPM-30 • HPM-45



Hydrogen Power Module 'HPM'

Plug & Play Solution

- ❑ Protection against humidity & salinity
- ❑ Fully integrated balance of plant
- ❑ Voltage & Power regulation
- ❑ Modular



Power Packs

HPM-15 kW

HPM-30 kW

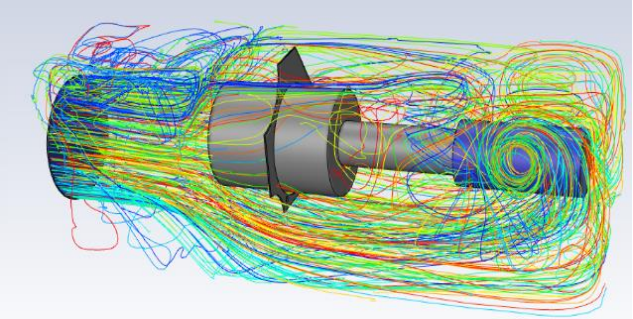
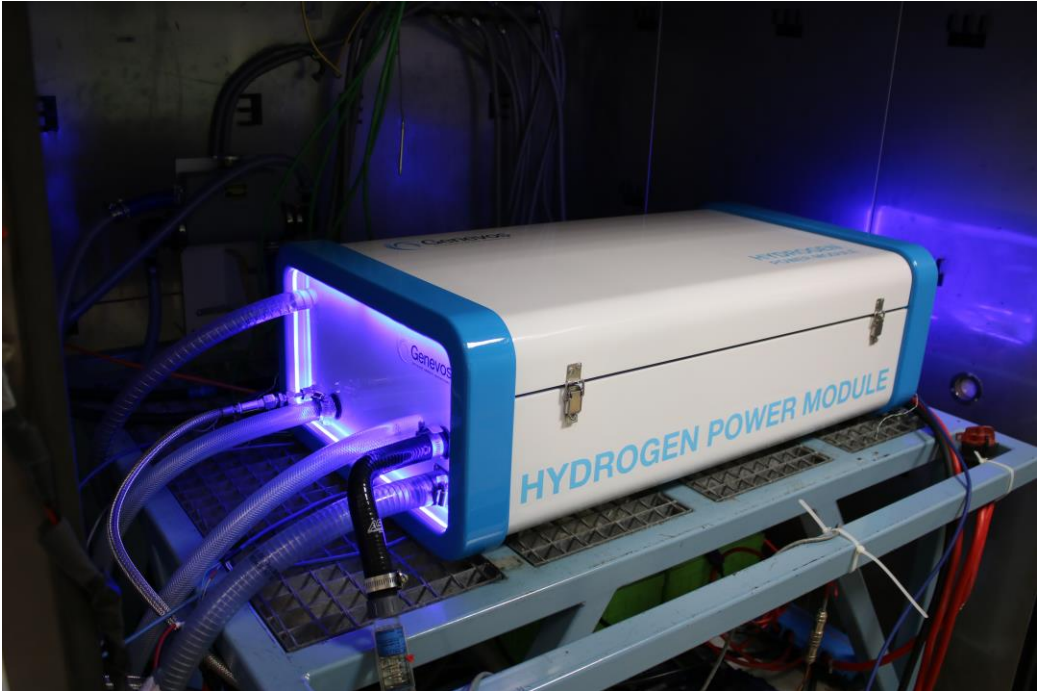
HPM-45 kW



R&D Partnership - EIGSI



H2 Lab established at EIGSI La Rochelle

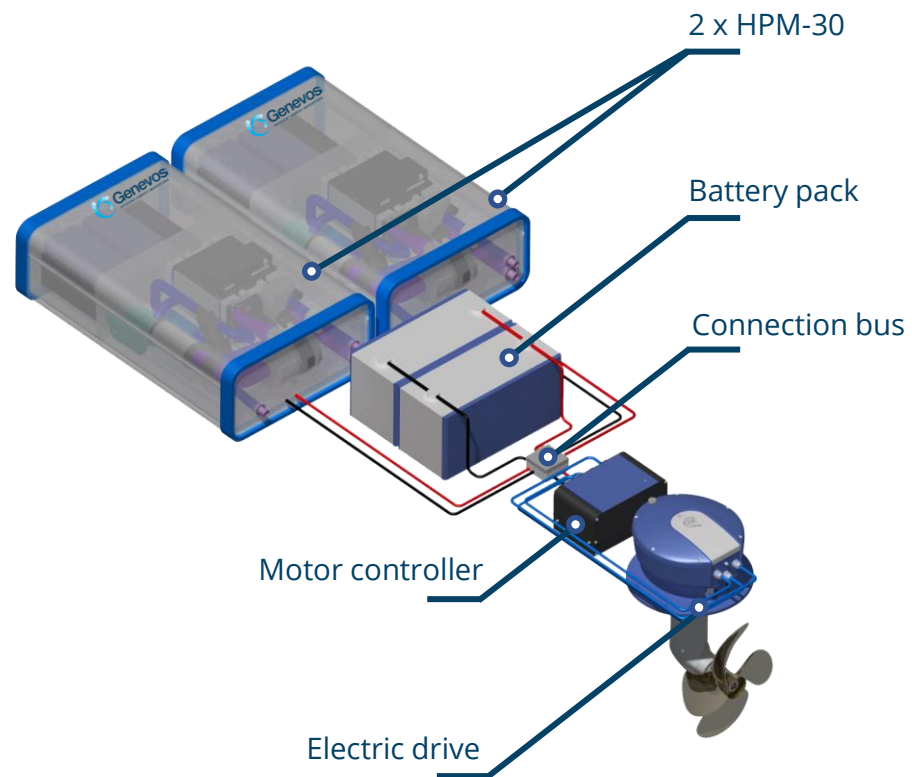


Diversified Applications

Meeting zero emissions needs across the sector

Scalability and redundancy
through modular integration

Example: Typical integration for 60 kW primary propulsion



Primary propulsion

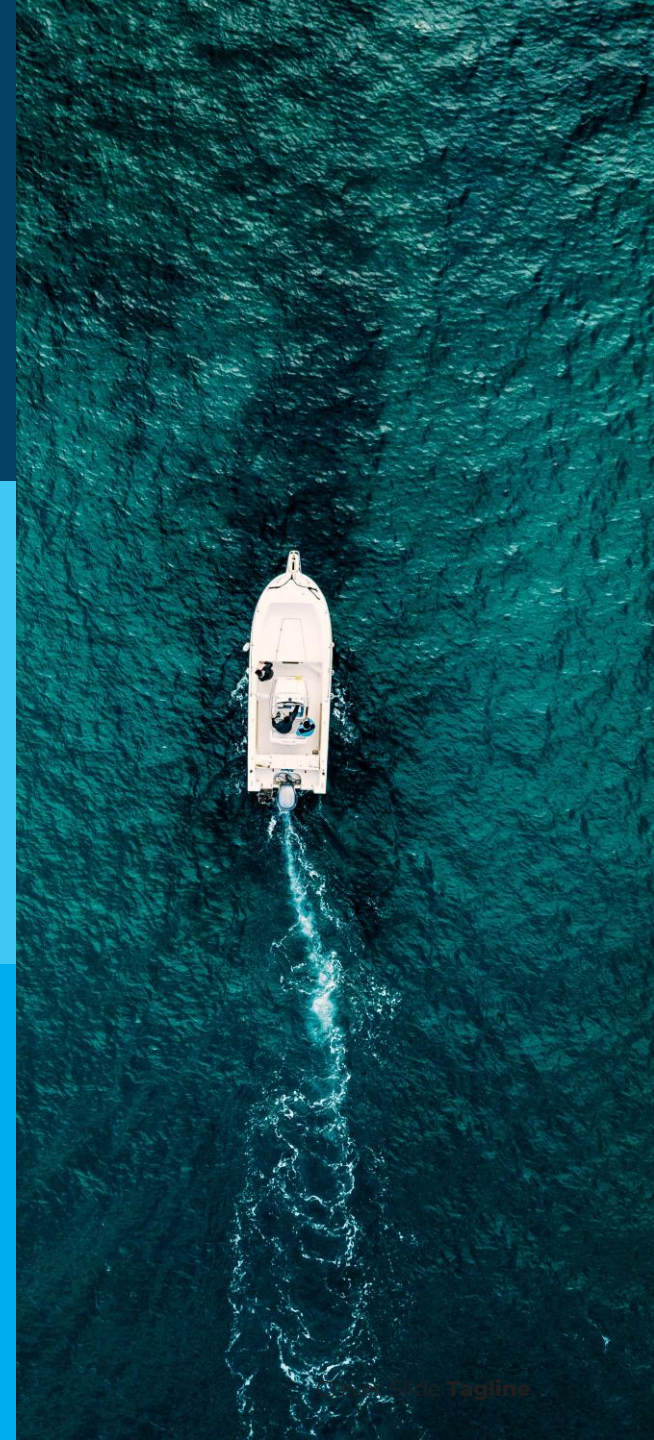
- ❑ HPM hybridised battery buffer
- ❑ Propulsion and on board electronics
- ❑ Application examples: yachts, small ferries, small commercial craft

Secondary propulsion

- ❑ HPM hybridised diesel-electric system
- ❑ Low power propulsion
- ❑ Application examples: inshore passenger ferries, service vessels, fishing vessels

Auxiliary systems

- ❑ 100% HPM power generation for auxiliary systems
- ❑ Application examples: large commercial vessels moored, anchored in restricted pollution zones



Market Applications

For primary, secondary and auxiliary power

Yachting



- Sailboats
- Inshore low speed motorboats & riverboats

▪ 15 – 100 kW

Water Taxis



- River ferries & taxis
- River service vessels
- Inshore vessels

▪ 15 – 100 kW

Service Vessels



- Pilot boats
- Work boats (dredgers)
- Patrol boats

▪ 30 – 500 kW

Ferries



- Crew transfer vessels
- Offshore passenger ferries
- Research & survey vessels

▪ 30 – 500 kW

Shipping



- Zero-emissions low speed propulsion or auxiliary power for shipping
- Small container ships
- Cruise liners

▪ > 500 kW

> 2022

> 2023

> 2025

Service Vessel – Feasibility Study

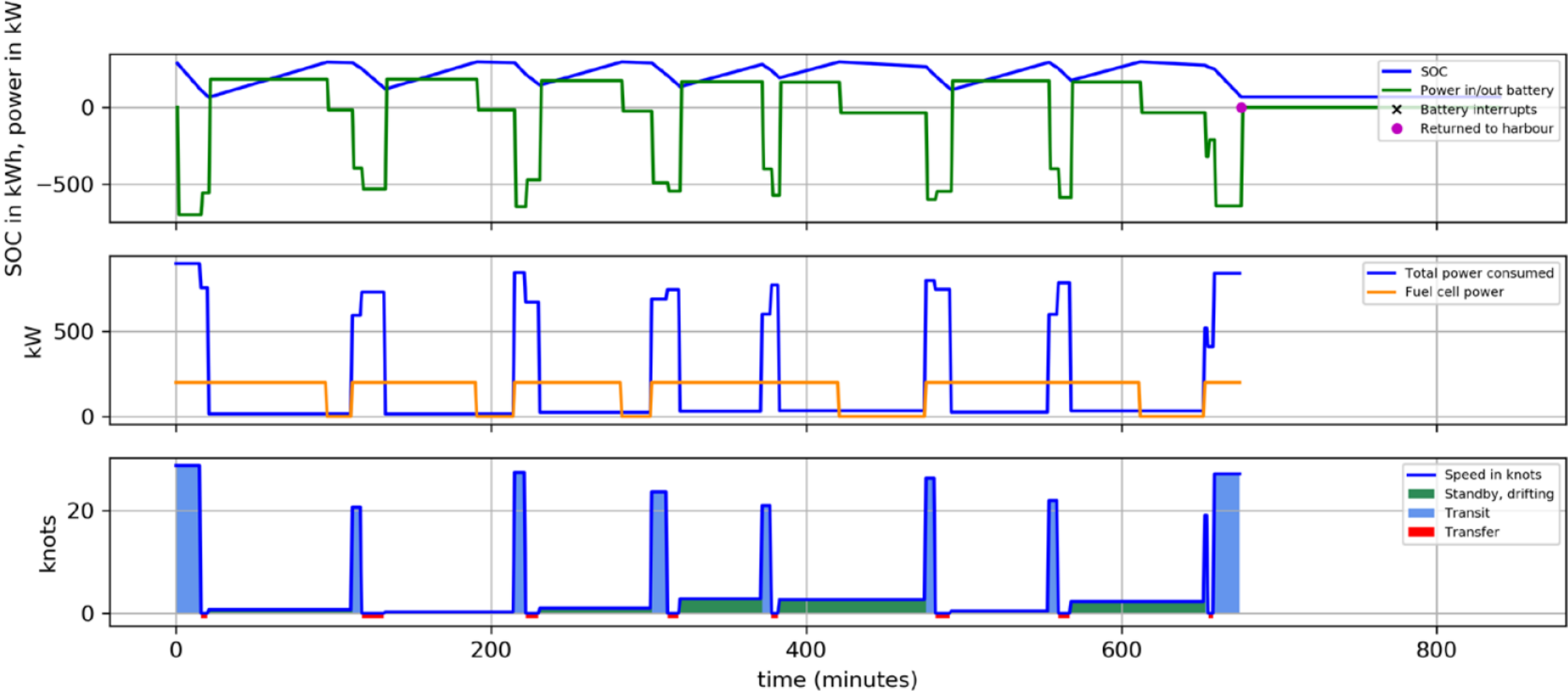
Hydrogen system for Wind Turbine Service Vessel



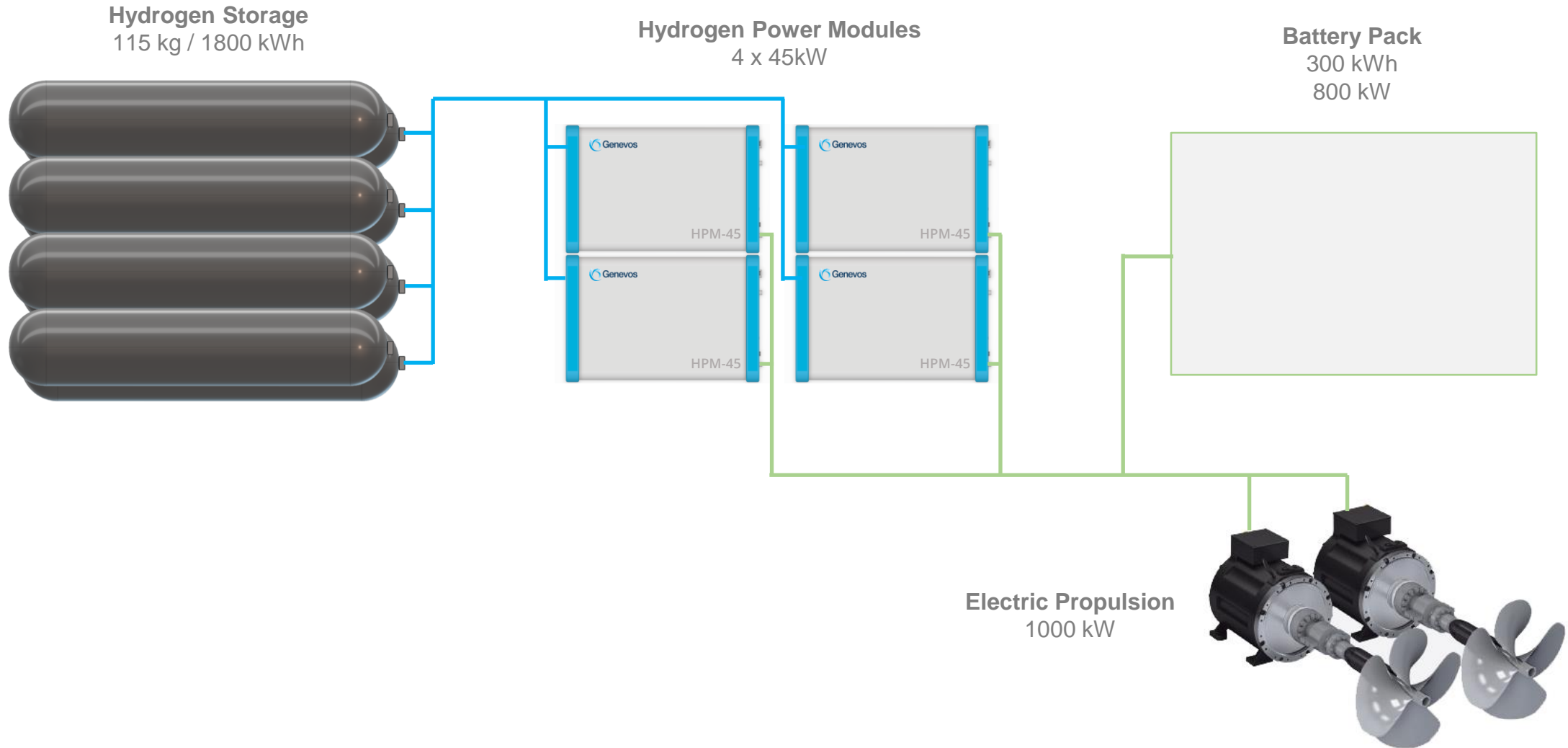
Service Vessel - Hybridisation



Hybrid fuel cell and battery power cycles

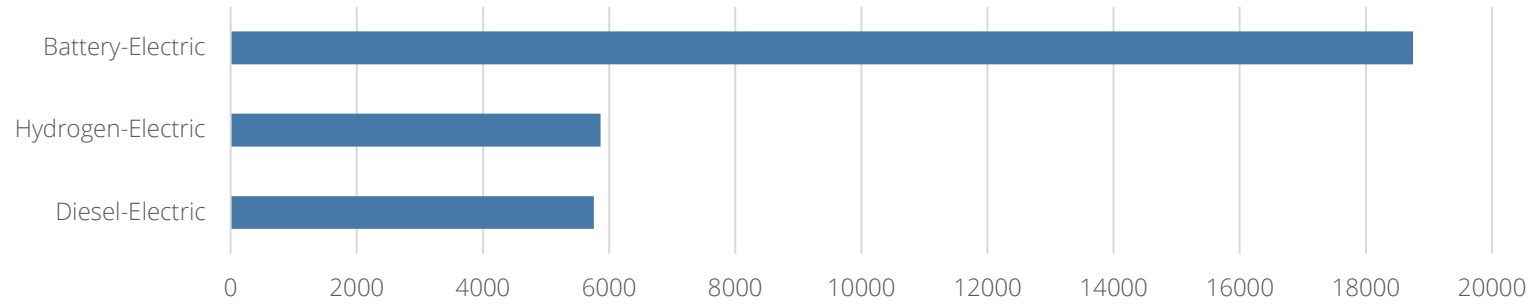


Service Vessel – System Arrangement

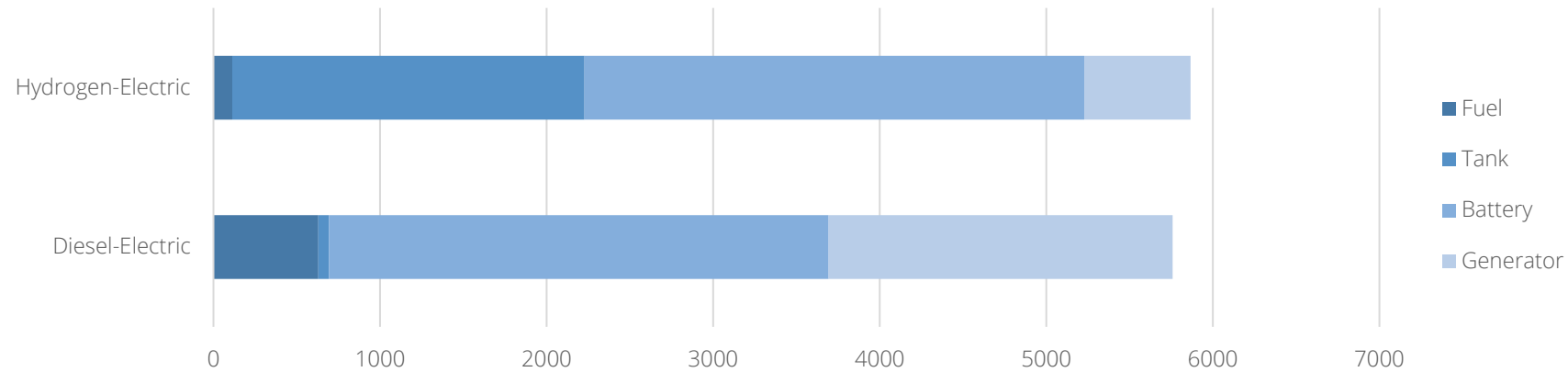


Weight comparison of technologies

Weight Comparison of technologies (kg)



Weight Comparison - Diesel vs Hydrogen (kg)



Contact

Join the transition to clean power on our oceans

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Mission

Create pioneering zero emission energy solutions to accelerate decarbonisation of our ocean environment

