



# Hydrogen Power Modules

Zero Emission Marine Solutions

electric  
& hybrid marine  
AWARDS 2024

electric  
& hybrid marine  
AWARDS 2023

electric  
& hybrid marine  
AWARDS 2022





**3% of global GHG emissions.**

Company Purpose Stem

## **The Problem** **We Solve.**

# **10% GHGs**

### **The climate impact of shipping**

The shipping industry is the backbone of international trade representing 3% of global GHGs, and forecast to grow to 10% by 2050.



# 01

## Climate Change

Greenhouse gases absorb the sun's heat and trap it in the atmosphere creating global warming.

# 02

## Health Impact

Ships use some of the world's dirtiest fuels on earth, increasing diseases from pollution above and below water.

# 03

## Sound Pollution

Vibrating engines & motors create stress and disrupt communication and behaviour patterns, jeopardizing entire ecosystems.

# 04

## Carbon Sink

+GHGs risk destabilising absorption resulting in accelerated global warming, acidification, and food chain crisis.



Problem Explained

# Why It Matters.

## Time to shift.

The maritime sector negatively impacts the environment and its ecosystems threatening life on earth.

Enough is enough. We are here to make change.



# 95%



CO2 Lifetime  
Reduction

Compared to a diesel engine.

**Our Solution  
Impact**

Our Action

# What we can do for you.

**We provide customised power solutions to decarbonise your activity.**

We engineer, certify and deploy marine fuel cell power systems offering a drop-in and modular solution to decarbonise vessels across the sector.

Simplifying the clean energy transition.



How we simplify the transition for you.

We provide a 'Complete H2 Pack' of solutions to include the drop-in fuel cell power system, engineering services, and after-sales.

→ **Marine Certified**

Durable + Safe

→ **Plug-and-Play**

Fully-Integrated

→ **Zero Usage Impact**

Zero Pollution



Our Solutions

# Hydrogen Power Module, 'HPM'.



Proven  
**Reliable**

Marinised  
**Durable**

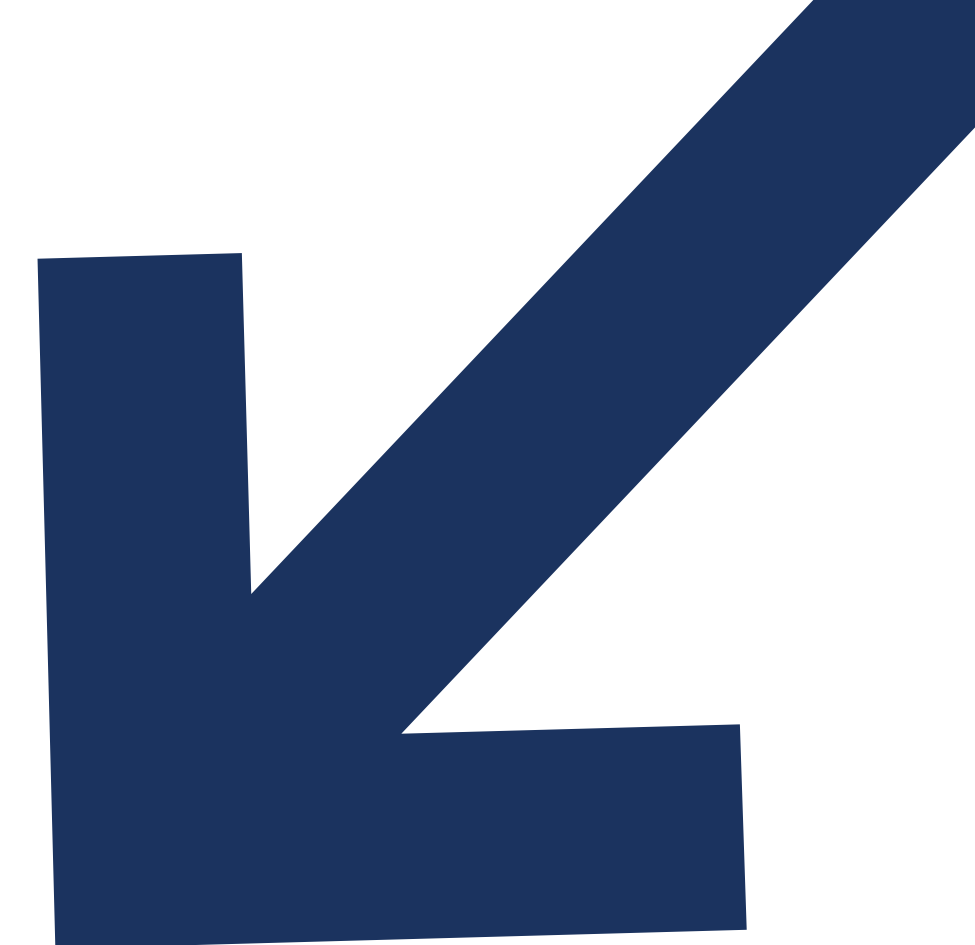
x2 diesel engine  
**Efficient**

## The modular fuel cell solution for clean maritime

A scalable solution based on power needs from 40 kW to multi-MW scale.

## Compatible with future e-fuels

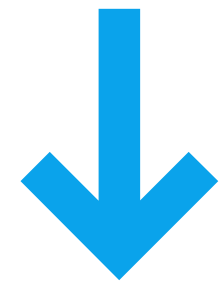
The high-power solution operates at low air pressure enabling reformer compatibility with future e-fuels such as methanol and ammonia.



How it Works

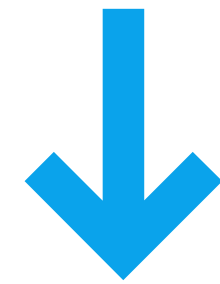
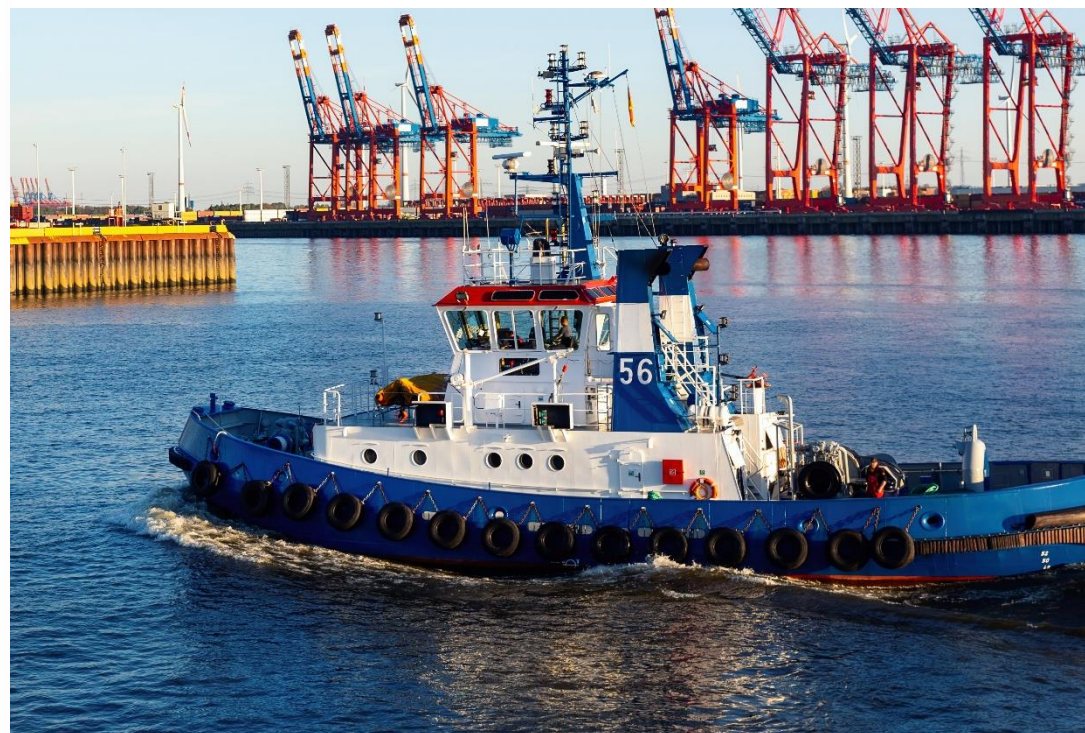
# The Simplified Solution.





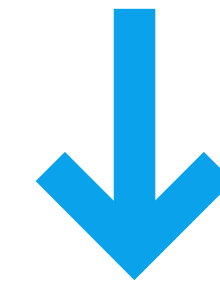
## Commercial

Workboats &  
Service Vessels



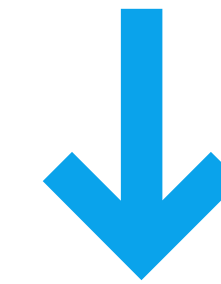
## Ferries

Coastal & Inland



## USVs

Surveillance &  
data collection



## Platforms

Auxiliary Power



The Overview

# Meet our **Market Segments.**

A versatile solution to decarbonise the maritime sector through auxiliary, primary or hybrid integration in a diverse range of vessels.



By Your Side

# Our Vision & Mission.



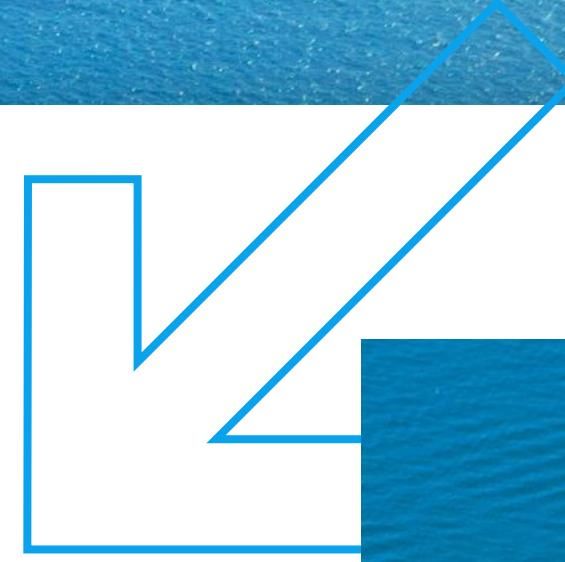
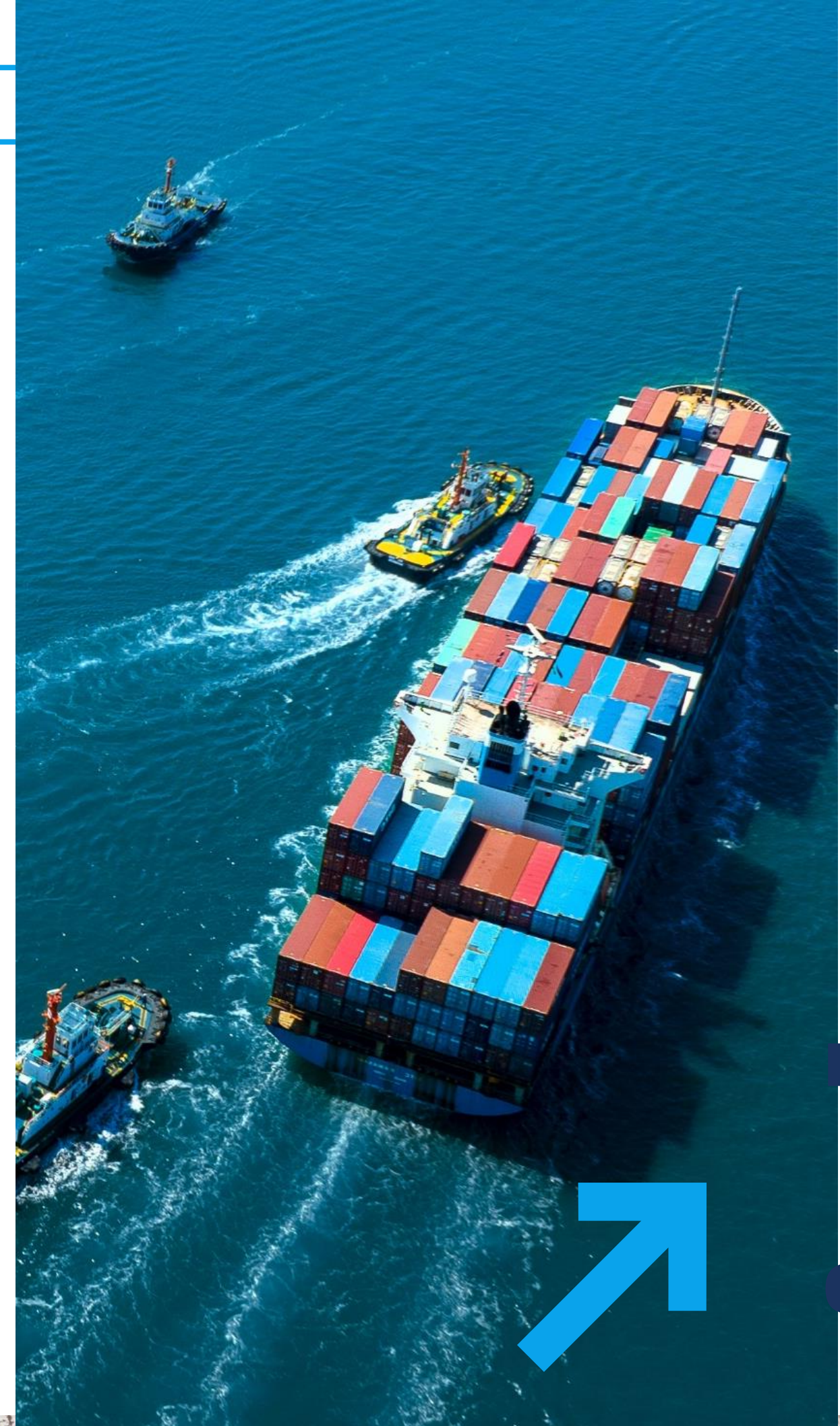
## Vision

Enable clean and resilient mobility on our oceans.



## Mission

Deploy practical solutions to decarbonise the maritime sector.



Brighter Future



Company Contact

# Make the Shift Be a Part of the Transition.

Contact us.

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