





The Starting Point

Worlds first LH₂ fuelled ship:

- Zero emission operations since March 2023
- DNV-certified ship technology
- 400 kW PEMFC
- 4t LH₂ storage
- Re-fuelling 3t/hr
- M/F Hydra (Norled AS)*

* LH2 Shipping personnel acted as Project manager at Norled AS



M/F Hydra – The Bunkering System

The first maritime LH₂ supply chain and bunkering system in operation.

- Meets regulatory requirements
- Certified and safe operations
- Effective, 3 tons/hr bunkering rate
- Limited safe working zones, 25m

Utilising in-house supply chain experience from LNG projects and M/F Hydra, to new LH₂ supply chain projects.





Experience transfer and scalability

- 1. Proven and safe (DNV certified technology)
- 2. Applicable to a range of ship types in shortsea trade
- 3. Offers range and flexibility



Project Portfolio

Through our project portfolio we both establish industry insight and help create the market.



Project Portfolio

Shortsea cargo ships	Ro-pax & ro-ro ferries	Cruise & Yacht	Offshore wind vessels	LH ₂ bunkering systems
	The state of the s		Not started	
Europe	Europe and US	World-wide	Europe and US	European ports

Shortsea container vessels	High-speed passenger vessels	LH ₂ feeder vessels	Seafood vessels (LH ₂ & GH ₂)	Platform supply vessels
Europe	Europe and US	Europe	Norwegian coast	North Sea



Container Vessels

Samskip Sea Shuttle container ships:

- LOA / TEU:138m / 800
- LH2 / PEMFC: 17 ton / 3,2
 MW
- 2 container ships in construction
- Zero emission operations







General Cargo Vessels

A cooperation between LH2 Shipping, LMG Marin and Grieg Shipbrokers.

The aim

To develop and build zeroemission, safe and cost-efficient cargo vessels to operate in the North Sea.

ENOVA soft funding granted for two pcs. 5000 dwt bulk carriers on LH₂: ~10 mEUR per vessel. Investment decision within June 2026.





Length Over All (LOA)

Length Between

Perpendiculars (LBP)

Moulded Depth

Beam

96.8m

95.0m

7.8m

16.0m

LH₂ Feeder Vessels

A cooperation between LH2 Shipping and LMG Marin.

The aim

To develop and build zeroemission, LH₂ feeder vessels for ship-to-ship transfer to large ship consumers (cruise, PSV, cargo ships) in the North Sea.

Commercial

Transport LH₂ from production location on time charter with LH₂ suppliers.







