

NatPower H successfully completes hydrogen refueling of ALBA, Europe's first electro-hydrogen training vessel

Monaco, 10 June 2025 - NatPower H, the world's leading developer for the production, storage, and distribution of green hydrogen and part of the NatPower Group in the maritime sector, announces the successful hydrogen refuelling of **ALBA**, Europe's first electro-hydrogen training vessel certified by Bureau Veritas. The refuelling operation was carried out at **Port de Fontvieille**, with the valuable support of the **City of Monaco** and the **Yacht Club de Monaco**, confirming the Principality's active commitment to promoting sustainable innovation in the maritime sector.

The refuelling operation was conducted over two days with the **technical support of Linde Gas Italia**:

- On **June 8**, NatPower H delivered **65 kg of hydrogen at 350 bar**.
- On **June 9**, an additional **45 kg of hydrogen** was supplied, bringing the total to **110 kg** of green hydrogen.

The refueling of NatPower will allow the ALBA training ship to navigate with zero emissions for 10 hours.

ALBA is a 19.95-meter-long, 5.60-meter-wide vessel designed for fishing and halieutic research training. It is powered by a **hybrid electric-hydrogen propulsion system**, including **two 70 kW fuel cells**, **two 200 kW main engines**, and **two 178 kWh batteries**. Hydrogen is stored onboard in tanks with a total capacity of **75.6 kg at 350 bar**, enabling completely **zero-emission** navigation and training operations.

The vessel, developed by **EODev** in collaboration with the **Lycée Maritime de Bastia** and a network of marine and energy experts, was built to Bureau Veritas standards and is registered under the French flag. ALBA is not only a training platform but also a tangible example of innovation in sustainable maritime operations, designed to reduce both emissions and noise pollution drastically.

With this successful operation, NatPower H reaffirms its leadership in deploying practical and scalable hydrogen refuelling solutions for next-generation vessels. The ALBA project adds to a growing list of pioneering refuelling initiatives carried out by NatPower H, including:

- **Tullio Abbate Elite 27 H Poseidon**: The world's first hydrogen refuelling on a lake, achieved with GEKO-Inocel and Tullio Abbate.
- **BGH Chase Boat**: Italy's first hydrogen refuelling of a vessel for the 37th America's Cup, in partnership with Bluegame.
- **Monaco Energy Boat Challenge 2024**: Refuelling of three hydrogen-powered boats during the event, confirming hydrogen's readiness for competitive maritime use.

These operations highlight NatPower H's ongoing commitment to the decarbonization of the maritime sector and the development of a robust hydrogen supply chain capable of supporting both innovation and environmental responsibility.



NatPower H

NatPower H the first global developer of innovative infrastructure for green hydrogen production, storage and refueling for recreational boating. NatPower H is part of NatPower, an independent energy project developer that builds innovative, sustainable and reliable infrastructure to improve the environment and quality of life through cost-effective and profitable solutions. The company, with the world's largest pipeline of renewables projects – of more than 24GW – is an accelerator of the energy transition process and includes all major technologies: solar, wind, storage and hydrogen. In just a few years NatPower has established itself as one of the most important independent developers and operates in 4 different countries: Italy, UK, Kazakhstan, US&Canada. The Company, with 5 offices in Luxembourg, Milan, London, Washington d.c. and Almaty, has over 100 employees on 3 continents.

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