

Technological innovation - Made in France - Hydrogen

EODDev powers the first pleasure craft with electro-hydrogen propulsion

- **A new zero-emission technology:** the start-up company EODDev has powered the first pleasure craft HYNOVA 40 with its onboard REXH₂[®] (Range Extender Hydrogen) genset, a cutting-edge solution for clean navigation thanks to electro-hydrogen propulsion.
- **A revolution in the world of navigation:** HYNOVA 40 is the first production model with electro-hydrogen propulsion in the world of tenders / dayboats approved for cruising, using hydrogen stored on board to navigate without CO₂ emissions, NOx or SOx, noise pollution, and no risk of diesel fuel leaks.

The REXH₂[®], clean high tech made in France

The REXH₂[®] (Range Extender Hydrogen) is an on-board power generator running exclusively on hydrogen, for propulsion and / or hotel load onboard clean and silent boats, adaptable and tailor-made according to the use profile and configuration of the vessels. With a footprint of barely one cubic meter and a weight of 400 kilos, the REXH₂[®] comes equipped with the latest generation of Toyota fuel cell and is today, in relation to the power delivered, the most compact and efficient range extender on the market.

The R&D carried out by the EODDev teams has made it possible to adapt perfectly to the extreme conditions of the marine environment, to reach powers of 70 kW per unit, up to 1 MW when the modules are stacked. It is this flexibility in the implementation that makes the REXH₂[®] the ideal vector for tailor-made hydrogen solutions for propulsion and the supply of carbon-free energy at sea. It can thus be fitted into all types of boats, from cargo vessels to passenger shuttles to barges through professional boats and small and large pleasure vessels.

Compared to petrol or diesel, the REXH₂[®] provides an obvious environmental benefit since it only releases water. There is therefore no release of pollutants into the atmosphere or into the water (CO₂, NOx, greenhouse gases, unburnt hydrocarbons, and so on). The REXH₂[®] does not make much noise, pollution that is known to be especially damaging for marine species and their communication.

HYNOVA 40: a new approach to boating

Eco-designed and manufactured in France, the HYNOVA 40 is a silent 12-meter zero-emission craft designed by the French Chloé ZAIED, founder and president of HYNOVA Yachts but also a professional skipper. With a capacity of 12 passengers, HYNOVA 40 is the first pleasure boat equipped with EODDev's REXH₂[®]. Used as a day-boat or superyacht chaseboat, the HYNOVA 40 has an autonomy of 8 hours at a speed of 12 knots (it can reach a max speed of 26 knots), and recharges in 20 minutes once back at the port.



Making boats silent and zero emissions is a great opportunity to accelerate the virtuous development of the hydrogen society, because it ensures the consumption of several hundred kilograms of hydrogen per day, which in turn promotes the multiplication of distribution points and hydrogen consumption for the benefit of the environment.»

Jérémie Lagarrigue, CEO, EODDev



I am proud that we are the first company in the world to mass-market pleasure boats equipped with this innovative technology and unique process. And I am really happy to share this wonderful adventure with EODev. HYNova Yachts then hopes to be able to contribute to the development of this energy vector, which fits perfectly with my personal values. In addition to thinking and designing tenders with the least possible impact on the environment, I want to educate, promote and make the share of green hydrogen in the world of tomorrow increase, and build HYNova Yachts as a link for change towards new behaviors. "»

Chloé Zaied, CEO, HYNova Yachts



From Marseille to Monaco... a fun and technology-driven Sea Show

HYNova and its partners, including EODev, will present the HYNova 40 as well as their REXH₂[®] electro-hydrogen propulsion solutions during this Sea Show. A real road trip at sea, this event, which began in Marseille on May 26 and 27, will end on July 10 in Monaco via Cassis, La Ciotat, Toulon, Porquerolles, St Tropez, Cannes and Nice. HYNova will also bring to light associations sharing the same eco-responsible values. Environmental awareness workshops and the discovery of zero emissions navigation are also part of the program.

About EODev

Created in March 2019, EODev (Energy Observer Developments) is the result of unique experience feedback acquired aboard Energy Observer: the first clean energy and autonomous hydrogen-powered vessel, developing innovative solutions for the environment. The company's mission is to accelerate the energy transition by offering sustainable, reliable, efficient and accessible industrial solutions. EODev's expertise and offer are spread across the entire energy value chain with zero-emission electro-hydrogen generators for land (GEH₂[®]) or maritime and river (RexH₂[®]) applications, and floating mobile stations for the production and distribution of hydrogen (STSH₂). In addition to its industrial activities, EODev supports its clients in the design of tailor-made solutions for a successful energy mix with its Energy Designer design office, and facilitates the deployment of hydrogen mobility thanks to its H₂ 360 application. The recent fundraising carried out by EODev and the signing of partnerships with leading manufacturers have enabled the company to launch the industrialization and marketing of these innovative solutions.

About HYNova Yachts

Founded by Chloé Zaied in January 2020, HYNova is a French start-up specializing in the manufacture of electro-hydrogen powered boats, whose main objective is the protection of the maritime ecosystem. The assembly of these tenders will be carried out in the La Ciotat Shipyards within the Yachting Village of La Ciotat. The New Era, the name of the brand's "demonstrator", will travel the French Riviera to present and promote this new technology to local elected officials, decision-makers, and other HYNovaActors concerned about respect for the environment.

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