

EODev lights up the Eiffel Tower thanks to carbon-free hydrogen

- On the occasion of the Energy Observer exhibition, from May 20 to 30, 2021 on the Champ de Mars in Paris, the start-up EODev presents its electro-hydrogen generator GEH2® without emissions or fine particles and replaces diesel generators to supply energy to the exhibition village.
- The highlight of the event took place on the evening of May 25, 2021, with the use of the GEH2® as a substitute to the city of Paris electricity grid to light the Eiffel Tower with a beautiful and highly symbolic green hue. For the first time in more than 130 years, a clean solution has enabled the illumination of the most visited monument in the world.

The GEH2® to supply carbon-free electricity

While Energy Observer, the first autonomous and zero-emission hydrogen vessel, continues its journey around the world between California and Japan, its brand new exhibition village dedicated to renewable energies and hydrogen is active in Paris, on the Champ de Mars, near the Eiffel Tower, from May 20 to 30, 2021. The ambition of this major exhibition is clear: to show that the development of renewable energies, green hydrogen in particular, and smart computer systems are a concrete and immediate response to the climate emergency.

It is in this context that EODev set up in the heart of the Energy Observer village to give a full-scale demonstration of the performance and potential use of its first GEH2® electro-hydrogen power generator. The exhibition space is thus supplied with clean electricity thanks to a fuel cell running on hydrogen, which produces energy without any emission of CO₂ and fine particles, without smells and practically without noise. The GEH2® only rejects water and heat.

A world first: lighting up the Eiffel Tower with green hydrogen

The highlight of this concrete demonstration of the potential of EODev's GEH2® was to illuminate the Eiffel Tower only thanks to its carbon-free hydrogen. A feat never achieved before and a highly symbolic one, which goes down in the history of technical progress which has allowed the Iron Lady to shine every night since its inauguration 132 years ago (on March 31, 1889).

"Our solution brings the lighting of the Eiffel Tower into a new era of technological and sustainable progress. We believe this initiative will be followed by many others where future events can be celebrated with clean energy. We expect the most beautiful monuments in France and elsewhere will be illuminated thanks to sustainable energy solutions. Beyond their symbolic significance, these initiatives, such as EODev's GEH2®, highlight zero-emission solutions that are already operational today," **Jérémie Lagarrigue, CEO, EODev**

The GEH2®: packed with technology

Coupled with a 44kWh buffer battery designed by [EVE System](#) which makes it possible to manage power peak requests, the fuel cell which equips the GEH2® is a module similar to the one developed by [Toyota](#) for its Mirai, which was also specially adapted by EODev engineers in collaboration with Toyota in 2019 and installed on board the Energy Observer boat.

Developing 60kW, this electro-hydrogen power generator has a double adduction system and all the connections needed for remote monitoring of its performance and components. The GEH2[®] is connected to standardized hydrogen tanks - which were, for the occasion, filled with hydrogen certified from renewable sources by Air Liquide - so as to be able to supply the village with energy in all circumstances. The record energy density of the GEH2[®] allows it to consume only 3.5kg of hydrogen per hour when delivering 60kW, making it the most efficient generator on the market in its category.

Ideal for supplying clean energy to mobile and / or temporary events, such as concerts or on construction sites, the GEH2[®] also finds its full *raison d'être* in the supply of back-up or emergency power on sensitive installations (hospitals, data centers ...) or for "off-grid" and isolated areas, such as high mountain refuges, relay antennas, islands, mines or tunnels, etc.

Its industrialization is underway, on the ENERIA site in Monthléry, and the first mass-produced units are scheduled for early 2022. However, it is already possible to take advantage of an operational GEH2[®] thanks to equipment rental company LOXAM, which provided the Energy Observer village with its first unit for this event.

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. www.eo.dev

The event « Le Paris de l'hydrogène » is organized by Energy Observer with the support of the City of Paris. During this event, which takes place on the Champ-de-Mars from 20 to 30 May 2021, Energy Observer presents its brand-new exhibition village, dedicated to ecological transition, renewable energy and hydrogen. Many energy players and hydrogen mobility solutions are exhibiting their vehicles and systems to offer a positive, optimistic and innovative perspective on the cities of tomorrow. www.energy-observer.org

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