

## PRESS RELEASE

Paris, 26 January 2024,



Certified with **wiztrust**

### DECARBONISED HYDROGEN: AN ENERGY AND INDUSTRIAL PRIORITY

**EQUANS, A LEADING PLAYER COMMITTED TO ACCELERATING TRANSITIONS TOWARDS A LOW-CARBON WORLD, WILL BE PRESENT AT THE HYVOLUTION TRADE SHOW**

Equans, a major actor in the transition to a low-carbon and resilient world, will participate in the Hyvolution trade show, the international meeting point for the hydrogen sector. Serving as a catalyst for the entire industry, Hyvolution Paris will take place from January 30 to February 1 at Paris Expo - Porte de Versailles.

On this occasion, Equans will showcase its expertise and solutions for the design, construction, operation, and maintenance of hydrogen production and distribution units dedicated to decarbonising industrial sectors, mobility, and e-fuels.

*"Hydrogen will be one of the energies of the future," confirms Caroline Mazzoleni, Director of Hydrogen Activities at Equans. "In the face of the climate emergency, it is essential to leverage all relevant technologies for a rapid and effective decarbonisation of certain industrial sectors (refining, fertilizer production...) and the development of clean mobility (H2 or e-fuels)."*

*"By working today on the realization of intermediate-sized projects, we promote the growth of the hydrogen sector. We see the current challenges in terms of regulation, costs, and technology maturity as opportunities for learning and continuous improvement, aiming to strengthen the position of hydrogen in the future energy mix and prepare the industry for scaling up to larger projects."*

Throughout the three days of the trade show, **Equans experts will present the latest solutions and offerings of the Group**. Among these is **Hyvision, a mobile and turnkey solution** that provides decarbonised energy through electro-hydrogen generators for isolated sites, construction sites, or events (concerts, festivals, etc.), replacing conventional diesel generators. Silent, odorless, and smoke-free, this innovation reduces CO<sup>2</sup> emissions by 70% to 80% compared to diesel generators and significantly minimizes noise pollution.

This trade show will also mark the launch of Equans' new maintenance offering for industries and mobility actors.

The Group has numerous references in **Europe**:

- **In France, the Alp'HYne project** aims to decarbonise mobility and industrial uses in the Arve Valley, a territory facing air quality issues typical of mountain valleys and currently under an Atmosphere Protection Plan. The project aims to produce and distribute decarbonised hydrogen to all local actors wishing to decarbonise their uses (mobility, industry, power supply, etc.). The station in Bonneville will include a 2 MW electrolyzer capable of distributing up to 800 kg H<sub>2</sub>/day, providing a concrete solution for specific mobility needs related to steep gradients that limit the use of battery electric vehicles.
- Equans, with its subsidiaries Eras and Axima, worked for the Hyflexpower consortium. The project involved the development and testing of a turbine partially powered by renewable hydrogen in a recycled paper production unit.
- In various regions of France, Axima also deploys the HYVISION solution for different clients: Bouygues Télécom, Télévision de France.
- **In Germany**, Kraftanlagen, an Equans subsidiary, achieved a significant milestone in the construction of a 5-megawatt hydrogen production plant for Hy2B in the city of Pfeffenhausen, southern Germany. The plant will produce an average of 1,200 kilograms of green hydrogen per day, funded by the Federal Ministry of Digitalization and Transport, supplying Bavarian public buses.
- **In the UK**, Equans is the general contractor for the Tyseley Ammonia Cracker project in Birmingham, the largest and most efficient installation for ammonia molecule splitting into hydrogen. Equans has recently completed the installation and is currently commissioning it. It will provide 200 kg/day of hydrogen.
- Equans is also designing a green hydrogen production facility for a project supported by the UK government, supplying decarbonised hydrogen directly to an industrial site with processes difficult to electrify.
- **Equans BeLux (Belgium and Luxembourg)**, in collaboration with colleagues from **Equans Netherlands**, installed a complete hydrogen production, storage, and refueling chain at the wastewater treatment plant in Hessenpoort, Zwolle (Netherlands). Green electricity from solar and wind parks is converted into hydrogen during production peaks to address network congestion. The oxygen released during hydrogen production can be used for aerating sludge tanks in the wastewater treatment plant, resulting in considerable energy savings. In the future, the residual heat from the production process will also be used to increase the efficiency of the electrolyzer and the wastewater treatment plant.

Press contact:

Florence Lépany Duval: [contact-media@equans.com](mailto:contact-media@equans.com)