Iberdrola, first company to get AENOR's renewable hydrogen certification

- AENOR's recognition confirms that Iberdrola's renewable hydrogen production is environmentally friendly and climate neutral.

- Hydrogen has great potential to become a relevant energy carrier to move towards a carbon-free economy.

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Iberdrola's commitment to sustainability has taken a new step by becoming the first company to obtain AENOR's Renewable Hydrogen certificate for its Puertollano and Barcelona hydrogen plants.

This recognition verifies that Iberdrola produces hydrogen from renewable energy sources that are environmentally friendly and climate neutral. Specifically, the AENOR 'Verification of renewable hydrogen' seal covers the hydrogen generation, storage and marketing process, as well as the organisation's management system. This recognition accredits that Iberdrola complies with the European regulation, using water electrolysis technology and that the electricity used for the same comes exclusively from renewable energy.

The certificate was collected by Ibán Molina, Iberdrola's Director of Green Hydrogen Spain, and presented by Antonio Contreras, Director of AENOR in Castilla-La Mancha, at a ceremony held at Iberdrola's green hydrogen plant in Puertollano.

Ibán Molina stated that "we are proud of this certification. It is a clear demonstration of Iberdrola's role in the generation of renewable hydrogen to decarbonise the economy. In this sense, hydrogen is a success story in Puertollano and Barcelona, where it is helping to decarbonise processes where electrification does not reach, which serves to continue fighting for a sustainable horizon."

Antonio Contreras explained that "AENOR is committed to the fight against climate change, and we do so by providing a wide range of certifications related to environmental preservation, carbon management and climate change mitigation actions. Congratulations to Iberdrola, as it is the first company to achieve AENOR recognition for renewable hydrogen, a key energy vector for moving towards a carbon-free economy model".

The Verification of Generation, Storage, Trading and/or consumption of Renewable Hydrogen has been carried out on the basis of Directive (EU) 2018/2001 of the European Parliament and of the Council, of 11 December 2018, on the promotion of the use of energy from renewable sources, and Order TED/1026/2022 of 28 October, approving the procedure for the management of the system of guarantees of origin for gas from renewable sources, the Hydrogen Roadmap (approved by the Council of Ministers on 9 October 2020) and prEN 16325: 2022: Guarantees of origin related to energy, among other regulations applied.

The audit performed by AENOR has verified the type of gas produced, the raw materials used, and the renewable gas production technology used in Iberdrola's facilities, verifying that they meet the established sustainability requirements.

Hydrogen, the most abundant chemical element in the universe, is focusing the interest of the sector due to its potential to become a solution that, associated with renewable energy sources, allows for the decarbonisation of important industrial and mobility uses while progressing towards a carbon-free economic model.

Certifications for two unique projects

Iberdrola's green hydrogen plant in Puertollano (Ciudad Real) comprises a 100-MW solar photovoltaic plant, a lithium-ion battery system with a storage capacity of 20 MWh and one of the world's largest hydrogen production systems using electrolysis (20 MW). All from 100% renewable sources.

With an investment of €150 million, the operation of this plant will avoid emissions equivalent to 48,000 tCO2/year. The renewable hydrogen produced there will be used in Fertiberia's ammonia factory in Puertollano to produce green fertilisers.

In Barcelona, Iberdrola also has the first commercial renewable hydrogen production and filling facility in Spain, which is used by Transports Metropolitans de Barcelona (TMB) buses and other fleets and industries in the Zona Franca industrial estate, where it is located.