

Press release

Renewable hydrogen reduces CO₂ emissions, helping to meet the Paris Agreement target

Enagás and Redexis Gas create 'H2Gas' to boost renewable hydrogen

- The CEO of Enagás, Marcelino Oreja, and the Chairman of Redexis Gas, Fernando Bergasa, signed today an agreement to boost the technical development and encourage the production and transmission infrastructure for hydrogen generated from renewable sources.
- The project contemplates the use of Power-to-Gas technology, allowing hydrogen to be produced from water and electricity and injected into the gas pipeline network, either directly or converted into synthetic natural gas or biomethane.

Madrid, 8 March 2018. The Chief Executive of Enagás, Marcelino Oreja, and the Chairman of Redexis Gas, Fernando Bergasa, signed today an agreement to boost renewable hydrogen by creating 'H2Gas', the aim of which is the technical development and encourage of production and transmission infrastructure for hydrogen generated from renewable sources.

Under the H2Gas brand, Enagás and Redexis Gas are finalising an initial project which will consist of the development of the necessary technology to produce renewable hydrogen for its use in the industry and mobility sectors. Moreover, both companies will work jointly to advance and develop renewable hydrogen for its introduction into the gas transmission and distribution network. The project comprehends the use of Power-to-Gas technology, allowing hydrogen to be produced from water and electricity and injected into the gas grid, either directly or converted into synthetic natural gas or biomethane.

In the context of energy transition, renewable hydrogen is being positioned as a new, comprehensive energy vector, given that it can be transformed into different forms of energy: electricity, synthetic gas and heat, for its use in multiple applications. Renewable hydrogen enables new connections to be created between energy supply and demand, bringing flexibility to the energy system.

From the environmental perspective, it will be a key energy source for reducing CO₂ emissions, in line with the aims of the Paris Agreement. Furthermore, it is seen as a viable short-term option because its use suits to the existing gas network infrastructure, which is already prepared to store and transport both natural gas and gases produced from renewable sources.

The participation of Enagás in H2Gas falls within the framework of the company's Corporate Entrepreneurship and Open Innovation Programme, Enagás Emprende, and is a step ahead in its commitment to contribute to the development of a low-carbon model. The company has also taken the lead in Renovagas, a pioneering R&D project in Europe that involves the design, construction and trial operation of a 15 kWh pilot plant for the production of synthetic natural gas from biogas and hydrogen. Enagás is currently participating in other initiatives to promote the use of these renewable gases.

In turn, Redexis gas is using the H2Gas project to advance its strategy of advocating and investing in R&D projects based on sustainable energies that bring about technological innovation and promote energy-related and environmental sustainability. This will enable it to accommodate the development of new technologies involving renewable hydrogen as a new energy vector. Redexis Gas maintains a firm commitment to promote the future use of hydrogen, and has been a member of the board of trustees of the Foundation for the Development of New Hydrogen Technologies in Aragon since 2015.

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