

## **HYGRID project “Flexible Hybrid separation system for H<sub>2</sub> recovery from NG Grids”**

***NORTEGAS participates as a partner in the HYGRID project. This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking under grant agreement No 700355. This Joint Undertaking receives support from the European Union’s Horizon 2020 research and innovation programme and Hydrogen Europe and N.ERGHY***

***The key objective of the HyGrid project is the design, scale-up and demonstration at industrially relevant conditions a novel membrane-based hybrid technology for the direct separation of hydrogen from natural gas grids.***

The focus of the project will be on the hydrogen separation through a combination of membranes, electrochemical separation and temperature swing adsorption to be able to decrease the total cost of hydrogen recovery. The project targets a pure hydrogen separation system with power and cost of < 5 kWh/kgH<sub>2</sub> and < 1.5 €/kgH<sub>2</sub>. A pilot designed for 25 kg/day of hydrogen will be built and tested.

To achieve the objective, HYGRID will be developed by a consortium integrated by the University of Eindhoven, Hygear, Hyet from the Netherlands, Quantis from Switzerland, SAES from Italy and Nortegas and Tecnalia Research & Innovation Foundation from Spain.

