

## DESCRIPTION

One of the main applications of hydrogen as an energy carrier is its usage in fuel cell vehicles for transport, by replacing the current scenario based on fossil fuels.

Hydrogen fuel cell vehicles must be refuelled in the so called hydrogen refuelling stations (HRS), which are similar to conventional petrol stations.

There are currently two HRS in operation in Spain. FHA owns **one of them**, with delivering capacity for passenger cars and buses. The supply of hydrogen comes from our alkaline electrolysis plant.

High-pressurized hydrogen supply is possible thanks to a two-stage compressor located upstream the hydrogen filling station, with a discharge pressure **up to 350 bar**.

## FEATURES

- Launched in June 2010,
- Two possibilities in hydrogen delivery: 200 and 350 bar.
- Compliance with legal requirements in terms of safety in potentially explosive atmospheres (94/9/EC and 99/92/EC).
- Fully-automated filling process thanks to a PLC control system, ensuring a safe operation.
- Three-stage cascade for fast refuelling



## FUNDED BY

- GHERE – Management of wind farm with hydrogen to increase the penetration rate in the Electrical Grid
- DEBHE – Development balance of plant of Alkaline Electrolyzer



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