

GreenH

Electrolysis



We build the
Future Today



About Us

- GreenH Electrolysis is a renewable **hydrogen technology company** headquartered in Gurugram, India.
- We are a Joint Venture between **H2B2 Electrolysis Technologies** and **GR Promoter Group**. H2B2 will deliver their expertise as a technology developer and GR Promoter Group will bring in their know how of project development.
- We have set-up a Gigawatt manufacturing plant of which 100 megawatt is operating at Jhajjar, Haryana, India producing state-of-the art and highly efficient PEM Electrolysers.
- R&D of the future electrolyser technologies viz. AEM and SOEC are under progress, and GreenH is slated to manufacture the **AEM and SOEC Electrolysers** in India from 2026.
- We are rooted in our parent's understanding of the critical role green hydrogen plays in **India's energy security goals and the country's transition to decarbonization**.
- Successfully delivered the first 1MW PEM electrolyser for India's 1st hydrogen train in record time.



Our Products

Providing innovation, design, engineering, manufacturing, integration, O&M, comprehensive annual maintenance with plant availability guarantee, and production guarantee for hydrogen production systems using water electrolysis.

Electrolysers

- Medium and large size, containerised, “plug and play” electrolysers.
- Capacity ranging from 10 to 60 Nm³/hr (50 kW to 300 kW) and 200 to 2,000 Nm³/hr (1 MW to 10 MW)
- For 20- 100 MW integrated industrial solutions



Hydrogen Production Plants

- Full turn-key solutions for multi MW- scale hydrogen production plants.
- Focused on EPC, financial closure, project development, and commercialising the green molecule.



Hydrogen Refueling Stations

- Planning, designing, sizing, engineering, integration, and O&M to refuel different types of vehicles (Land, Rail, Marine).
- Stationary, large scale projects.
- Mobile and portable concepts.



Our Solutions

- Promoting and developing centralized and distributed hydrogen production facilities.
- Producing and selling hydrogen to decarbonize industries.

The Renewable Hydrogen Advantage



Mobility

- Alternative clean fuel.
- Range and refueling time same as a conventional vehicle.
- Zero GHG emissions.



Industrial

- Meets critical hydrogen purity requirements and environmental regulations.
- Feedstock and a heat source.



Power to X

- Meets grid ancillary services needs, manages surplus renewable energy.
- Security of supply for countries dependent on natural gas imports.

Integrated Product

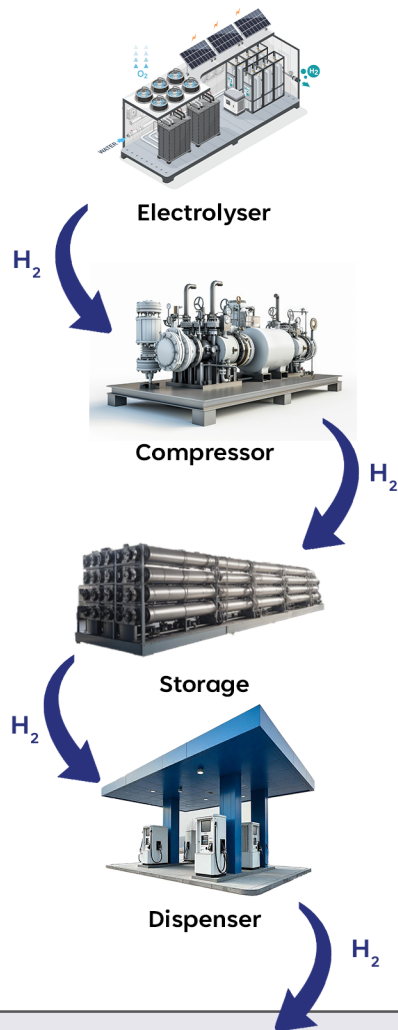
Focused on high demand markets, providing a sustainable solution for energy storage, transportation fuel and industrial applications.

GreenH can cover the whole value chain, including the following features:



GreenH powering India's First Hydrogen Train

About Hydrogen Refueling Station:



- 1MW PEM Electrolyser producing 430kgs Hydrogen per day.
- Manufactured by GreenH at Jhajjar factory, Haryana.

- Diaphragm type hydrogen gas compressing station.
- Compressing hydrogen upto 500bar.

- 2,320kgs @200bar in Type I cylinders with fire protection wall.
- 680kgs @ 500bar in Type-IV composite cylinders feeding two dispensers.

- 2x H35 dispenser dispensing 420kgs @350bar in 1hour.
- Employed with T20 chiller for safe refueling.



India's 1st Hydrogen train

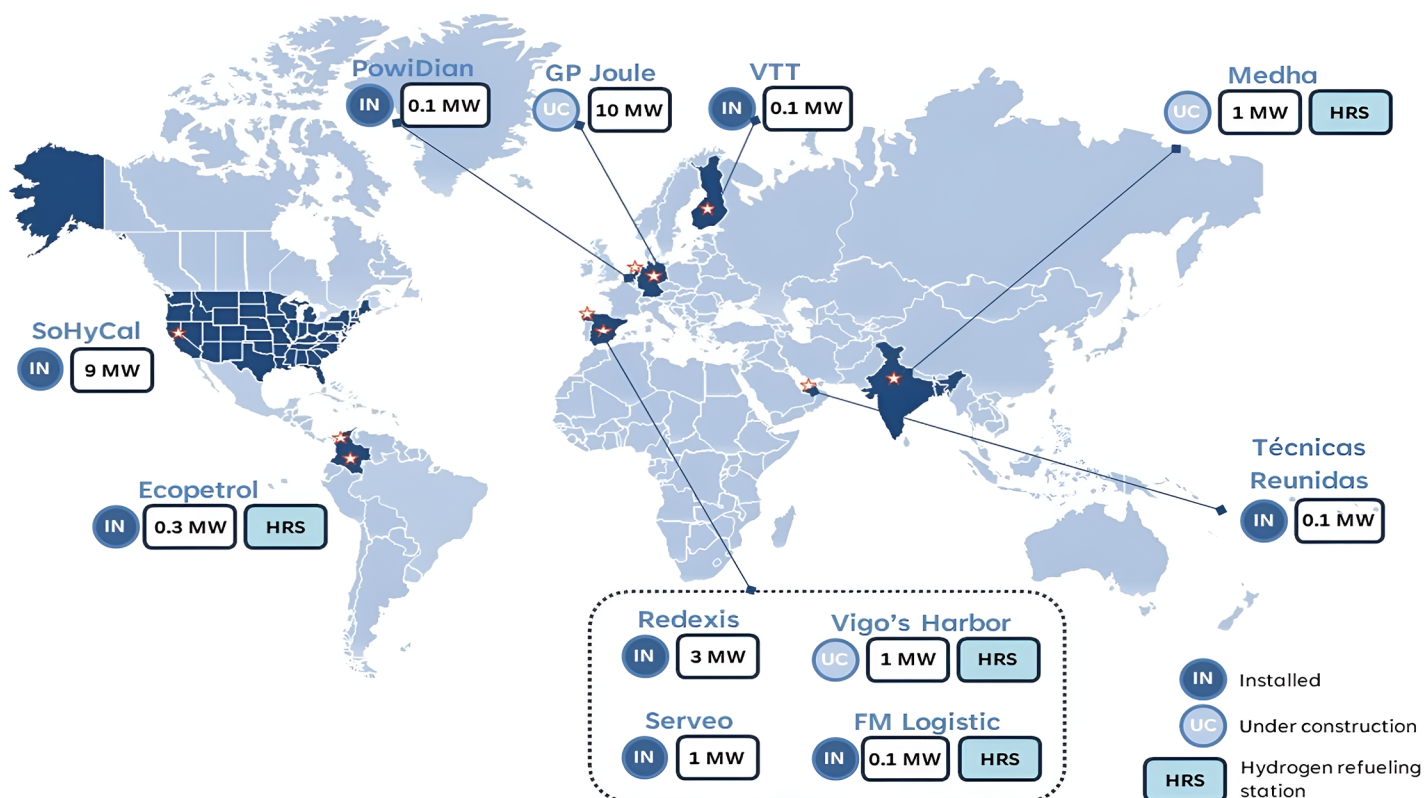
- Diesel Engine retrofitted to Fuel Cell Electric Vehicle (FCEV) locomotive.
- 2 x 1.2 MW FCEV train - largest capacity in the world.
- 10 coaches: longest Hydrogen train in the world.
- Traverses route between Jind and Sonipat.
- Distance covered 360kms / day in 2 round trips.



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Our Presence



Get in touch with us



GreenH Electrolysis Private Limited

+91 9687628460

info@greenh.in

Corporate Office:

2nd Floor| Tower-B, Golf View Corporate Tower,
Sector-42, Gurugram, Haryana, India-122002

www.greenh.in