

Powering a cleaner future with solar energy and green hydrogen.

— Innovating Energy for a Greener Tomorrow



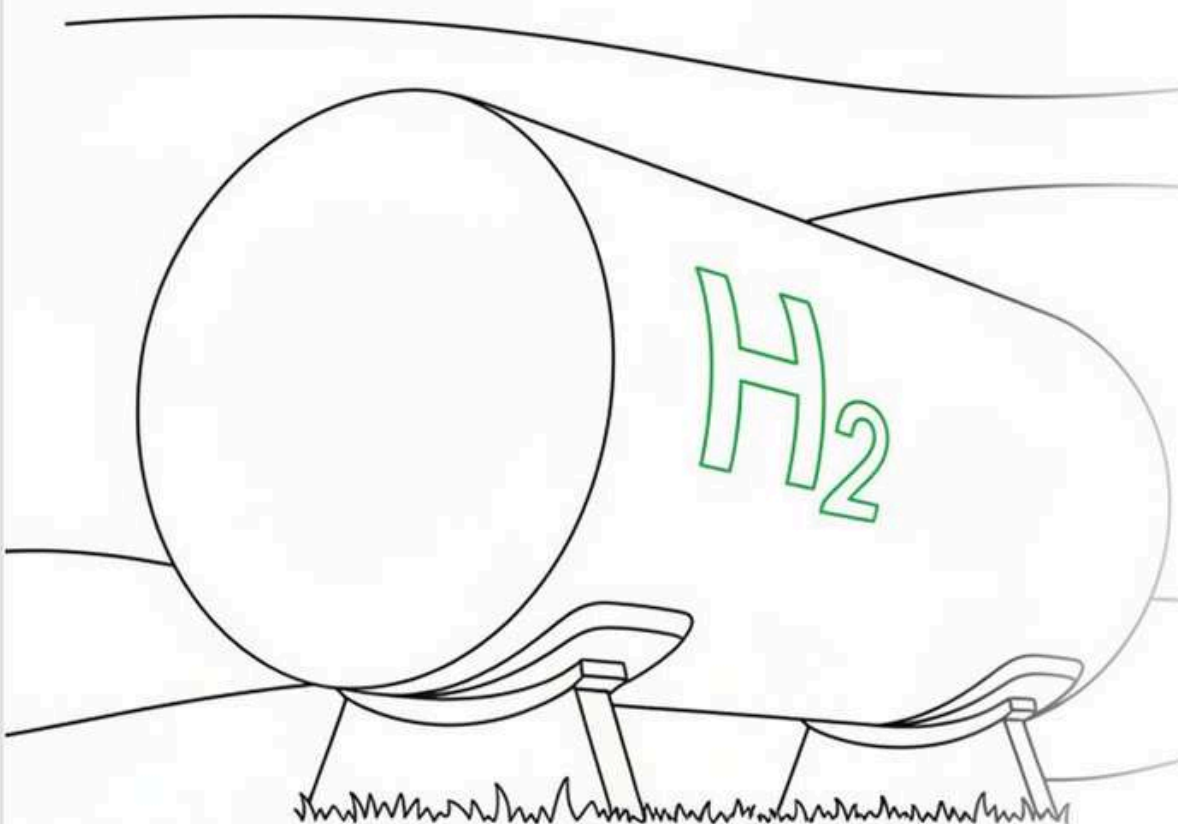
Who **We** Are?

We are a next-generation clean-tech company specializing in Solar EPC, C&I energy solutions, green hydrogen, and electrolyzer manufacturing. Recognized under SECI's SIGHT program, we deliver integrated solar, hydrogen, and energy storage solutions. Through turnkey projects and flexible energy models, we help industries achieve net-zero goals efficiently and sustainably.



OUR VISION

To become a global leader in green hydrogen and clean energy solutions, empowering industries and nations to transition from fossil fuels to sustainable molecules, and shaping a carbon-neutral future powered by innovation.



OUR MISSION

Our mission is to deploy high-impact hydrogen and solar solutions that empower industries and governments to decarbonise at scale. From green hydrogen production systems to HRS (Hydrogen Refuelling Stations) and utility-scale solar EPC, our goal is to make clean energy adoption seamless, efficient, and future-ready.





What We Do

Integrated Clean Energy Solutions

GREEN HYDROGEN

➤ ELECTROLYSER MANUFACTURING

- Alkaline Electrolyser

➤ EPC - PROJECT DEVELOPER

- Green Hydrogen Plant
- Fuel Cell and Refueling Station

➤ GREEN HYDROGEN PRODUCER

- Green Hydrogen Production and Supply
- Green Ammonia, Methanol and SAF Production

SOLAR

➤ ON - SITE SOLAR ROOFTOP BUSINESS MODELS

- RESCO - Net Metering
- BTM (Behind the meter)

➤ OFF - SITE OPEN ACCESS BUSINESS MODELS

- Third Party Power Purchase
- Group Captive Power Purchase
- CAPEX Project Development



Our Solar PortFolio

REINVENTING
CLEAN POWER FOR
THE FUTURE

Footprint

300 MW +
Installed Capacity

15+
Years of Cumulative Experience

1000 MW +
Projects under development

2 GW
Portfolio by 2030



Solar Energy Solutions

At GH2 Solar, we empower commercial and industrial clients transition to clean energy and achieve their net- zero goals. From rooftop installations to open-access solar, and from engineering to long-term PPAs, we deliver end- to-end solutions tailored to their energy needs enabling a smarter, greener future.

WE HELP YOU:

01

Reduce your electricity costs.

02

Turn Your Sustainability Vision into Net-Zero Action.

03

Save more with CAPEX-based solar ownership.



Why go the Open Access Route?

- **UPTO 40% SAVING ON POWER BILLS**
Grid variable tariff to be replaced with minimal open access charges.
- **SAY BYE TO GRID UNCERTAINTY!**
Long term PPAs, provide a hedge from inflation related grid charges
- **FULFIL RPO TARGETS**
Comply with government directives
- **GO GREEN OR GO HOME!**
Contribute to carbon emission reduction whilst enhancing your brand value with green choices!



ADVANCING CLEAN ENERGY THROUGH BESS

Battery Energy Storage Systems (BESS) play a critical role in enabling reliable and efficient renewable energy integration. By storing excess solar power and delivering energy when needed, BESS enhances grid stability, energy security, and operational efficiency. GH2Solar is leveraging advanced storage solutions to support a smarter, cleaner, and more resilient energy future.



AFTER SALES SERVICE:

Comprehensive Care

- One year of worry-free O&M service with every GH2 Solar electrolyser.

Faster Turnaround

- Domestic manufacturing enables instant support and minimal downtime.

Effortless Experience

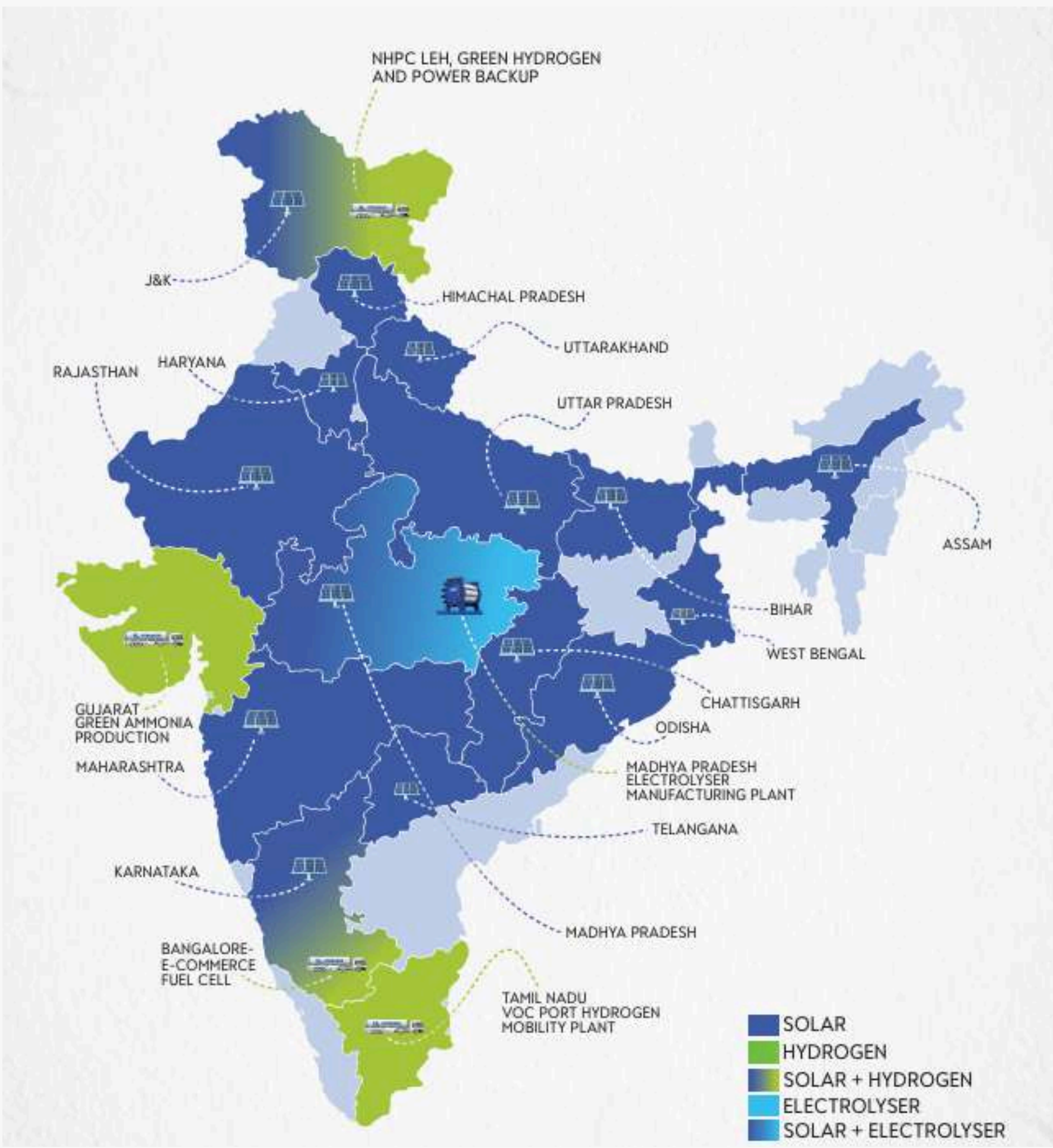
- Dedicated in-house O&M team ensures smooth, hassle-free operations.

Proven Reliability

- Guaranteed uptime and performance assurance for consistent hydrogen production.



Our Portfolio



Solar Park



Karnataka

YAGDIR
Location

33KV
Connectivity

75MW
Park Capacity



Rajasthan

**BAPINI &
SHEKHALA**

133 KV
Connectivity

100 MW
Park Capacity



Maharashtra

JALGAON

33 KV
Connectivity

100 MW
Park Capacity

300 MW+ PROJECT PIPELINE

Our Marquee Solar EPC Projects



BPCL
4540 Kw & 4125 kw



Airports Authority of India
4000 kw



Indian Oil Petronas (IPPL)
3437 kw



NTPC, Leh
1700 kw



NDMC
1370 kw



ONGC
600 kw



NHDC
600 kw



CREST
445 kw



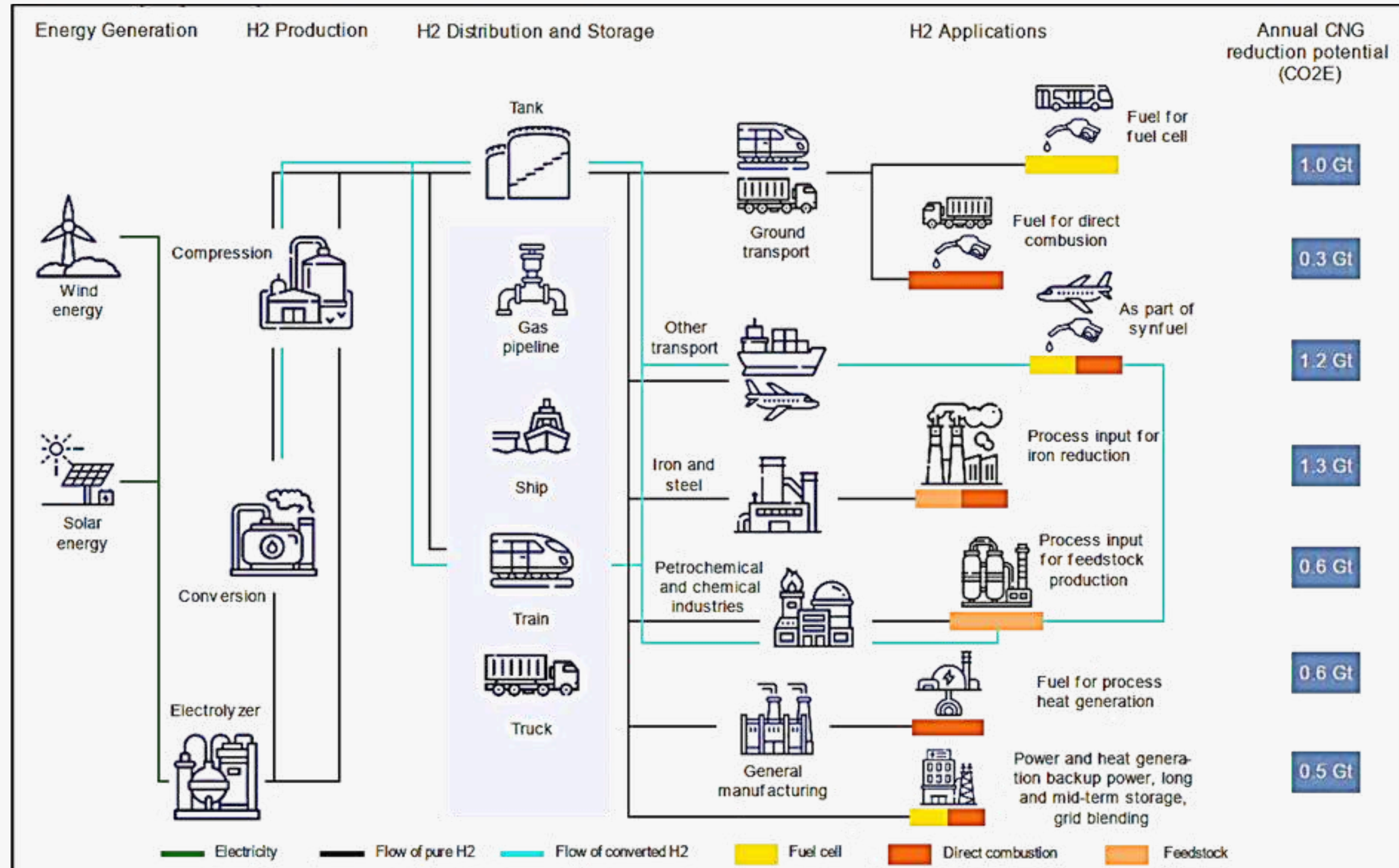
CEPT
400 kw



Green Hydrogen Solutions



An Overview of the Hydrogen Ecosystem



CHARTING SUCCESS WITH PLIEDGE

GH2 Solar is one of the few companies that has been awarded SECI Production Linked Incentive under SIGHT Scheme for Green Hydrogen production **(10,500 MT/year)** and Electrolyser manufacturing **(105 MW expandable upto 500 MW)** under (Mode-I, Tranche-II).

Green Hydrogen Production Plant —
Commissioning by Jan 2028

Electrolyser Manufacturing Plant —
Commissioning by August 2026



Our Green Hydrogen Experience – Supporting India's Clean Energy Goals

Comprehensive Hydrogen Project Capabilities

- Active projects delivering Hydrogen Production, Storage, Distribution, and Utilization
- Hands-on experience with Electrolysers, Hydrogen Storage, Fuel Cells, and Refuelling Systems
- Strong partnerships with established international technology providers

Project Footprint Across Key Applications

- Industrial Backup Power using Hydrogen. Hydrogen Refuelling Stations for mobility. Microgrid systems powered by Hydrogen in remote locations.
 - Hydrogen Demonstration Facilities for ports and industry.
- 

Key Green Hydrogen Projects

VOC Port, Tamil Nadu – Commissioned

- Executing a turnkey Green Hydrogen Demonstration Plant at VOC Port, Tuticorin.
- Producing 10 Nm³/h green hydrogen via renewable-powered electrolysis.
- Full EPC and O&M delivered by GH2 Solar under the Green Shipping Initiative.
- A fully operational demonstration plant featuring hydrogen production, storage, and fuel cell-based power generation.
- The system is designed for a lifespan of 20 years. It is complemented by a fuel cell with a rated operational life of 3,000 hours.



Key Green Hydrogen Projects

NHPC Microgrid, Leh – Under Construction

- Engineering, Procurement & Construction (EPC) Contract for Setting up of Pilot Project for Green Hydrogen Based Fuel Cell Micro Grid 25kWe for NHPC Guest House at Nimmo Bazgo Power Station, Alchi, Leh.
- The system includes a 20 Nm³/hr electrolyser delivering 99.99% pure hydrogen at 30 bar, designed for a 20-year operational life in extreme climatic conditions.
- A 25 kW fuel cell, consuming 14 kg/hr of green hydrogen, will provide emissions-free power with a runtime of up to 3,000 hours.
- Complete EPC and O&M by GH2 Solar in a high-altitude region.



Key Green Hydrogen Projects

Commercial & Industrial Hydrogen Fuel Cell Systems

GH2 Solar deploys stationary fuel cell systems as a silent, zero-emission alternative to diesel backup for data centres and industrial facilities. Integrated with commercial solar panel installations, these modular systems deliver uninterrupted power, intelligent load balancing, and enhanced grid compatibility for mission-critical operations. Designed for long-term energy security and ESG compliance, they reduce operational costs, maintenance requirements, and carbon exposure while enabling cleaner, self-sustaining energy ecosystems.



Key Green Hydrogen Projects

KP Group – Green Hydrogen & Refuelling Infrastructure

This strategic project integrates a 1 MW renewable-powered electrolyser with high-flow hydrogen refuelling infrastructure to support the decarbonisation of heavy-duty logistics fleets. Designed for long-haul mobility, the facility combines high-pressure storage, advanced safety systems, and SCADA-enabled monitoring to ensure reliable, high-uptime operations. The scalable infrastructure model strengthens India's transition toward hydrogen-powered transport corridors and clean mobility adoption.



Key Green Hydrogen Projects

Green Ammonia Project | GH2 Solar, AHES & KP Group

This initiative targets 100,000 TPA of green ammonia production through a long-term strategic partnership integrating large-scale renewable energy with advanced synthesis infrastructure. Designed for domestic use and global export, the project supports low-carbon fertiliser and chemical industries with internationally certified green fuel solutions. Backed by export-ready storage, specialised logistics, and high-pressure safety systems, the facility strengthens India's position in the global green molecule economy.



FACILITATING GREEN HYDROGEN DERIVATIVES

Green Ammonia's Industrial Utility

Green Ammonia is a scalable zero-carbon fuel supporting industrial decarbonisation, maritime logistics, and sustainable chemical production.

Beyond ammonia fertiliser for plants, it acts as an efficient hydrogen carrier for large-scale energy applications. It also enables low-carbon industrial retrofits and supports India's National Green Hydrogen Mission.



Green Methanol: The Future of Low-Carbon Industry & Transport



We mix green hydrogen with biogenic or captured carbon to create green methanol that's much easier to move. Green methanol production gives the shipping and chemical sectors a fuel that actually works with the boilers and engines they already run. Since it stays liquid at room temperature, it serves as a direct swap for fossil feedstocks—so businesses can go green without having to rip out and rebuild their entire infrastructure.



Solar

As a premier solar power plant EPC company in India, GH2 Solar delivers high-performance industrial & commercial solar solutions tailored for the rigorous demands of large-scale production. We maximise "electron" harvest through precise irradiance mapping and bankable technology. By optimising every megawatt, we help enterprises secure a reliable 24/7 power dispatch and accelerate the build-out of a resilient green energy grid.

BESS

GH2 Solar integrates utility-grade technology in BESS battery energy storage systems in India to stabilise volatile renewable streams. We specialise in forming "green electrons" to provide the constant thermal and electrical baseline. By deploying high-density storage, we help heavy industries bypass grid instability and achieve reliable 24/7 power dispatch through tactical load-shifting.



FUEL CELLS: POWERING THE FUTURE WITH GREEN HYDROGEN



Fuel Cells are driving the next generation of clean energy by converting Green Hydrogen into efficient, zero-emission power. From mobility and industry to decentralized energy systems, they enable a more resilient and low-carbon future. Through Green Hydrogen innovation, GH2Solar is accelerating the transition toward sustainable energy solutions across sectors.

TECHNOLOGY PARTNER - AHES

GH2 Solar and South Korea's hydrogen leader AHES have joined forces to create GH2 AHES JV



Under this venture GH2 AHES will establish a cutting-edge Electrolyser manufacturing factory in **India** by leveraging AHES's advanced, sustainable water-splitting technology.



A large industrial facility, likely a hydrogen production plant, with workers in safety gear inspecting a large electrolyser stack. The stack consists of multiple blue pipes and copper-colored components. In the background, there are large stainless steel tanks and complex piping systems. The floor is polished and reflective.

ALKALINE TECHNOLOGY ELECTROLYSER

GH2 SOLAR ELECTROLYSER MANUFACTURING FACILITY – INDIA

Manufacturing Location : Morena Madhya Pradesh

Capacity : 105 MW expandable upto 500 MW

Technology : Alkaline Type Electrolysis System

Area: 7 Acre – Next-Gen Manufacturing Hub



TECHNICAL SPECIFICATIONS OF AHES ELECTROLYSER



1 MW MODULE	
Design Capacity	200 Nm ³ /hr
Power Consumption DC	4.2 Kwh/ Nm ³
Water Consumption	1 l/Nm ³
Standard operation Range	30% - 100 %
H ₂ Quality Outlet	99.80%
H ₂ Quality post Treatment	Up to 99.999%
Outlet Pressure	~16 Bar
Temperature	Upto 90° C

Standard Manufacturing Range varries from 5 Nm³ to 7 MW.



UNDER CONSTRUCTION MANUFACTURING FACILITY

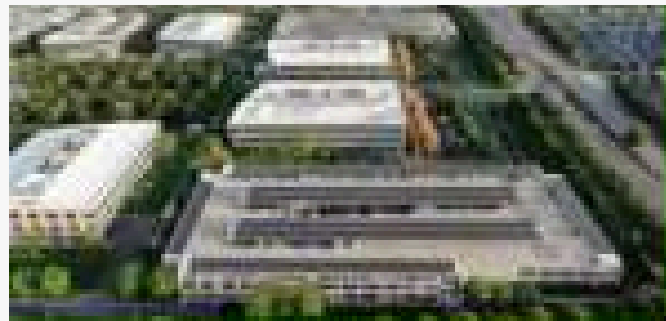


Powering Sustainable Aviation with e-SAF

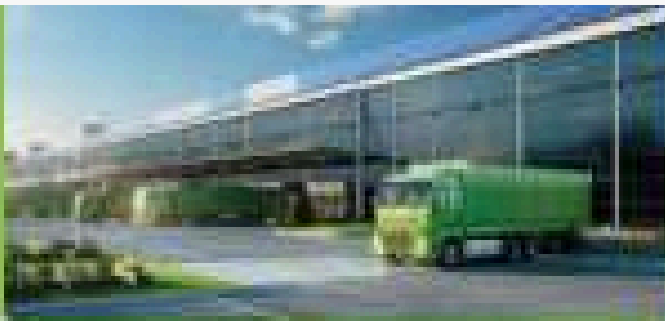


We are heavily focused on sustainable aviation fuel in India. This synthetic, flight-ready fuel is created by blending green hydrogen with recycled carbon. It's the most practical "drop-in" fix for airlines because it doesn't require a single tweak to current plane engines or airport fueling setups. For an industry staring down international CORSIA targets and the carbon footprint of long-haul flights, being an eSAF producer is our strategic move to create a solid pathway that actually scales without a total tech overhaul for the aviation industry.

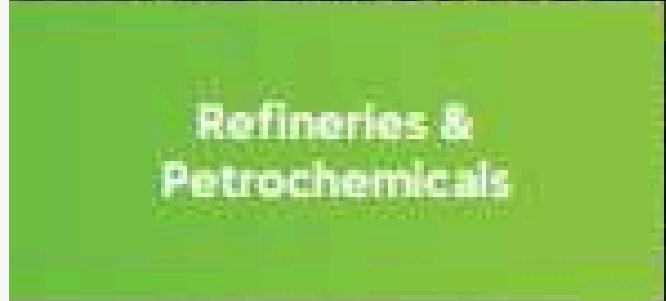




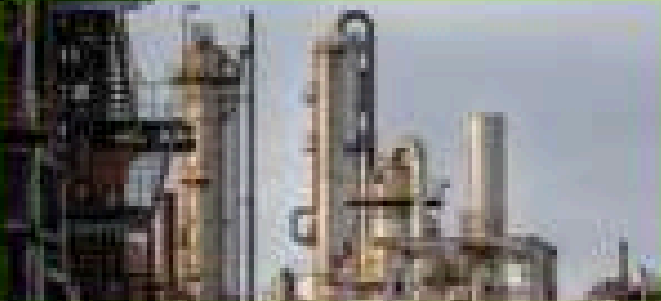
Commercial &
Industrial Campuses



Manufacturing &
Warehousing



Refineries &
Petrochemicals



CGD
Blending



Fertilizers (Green
Ammonia)



Steel & Metal
Processing



Ports & Green
Shipping



Data Centers &
Backup Power



Green Mobility &
Hydrogen Refuelling



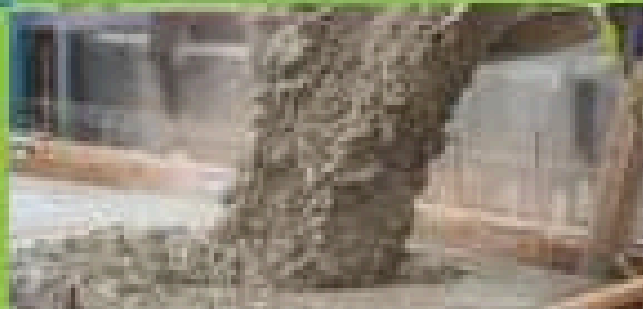
Glass



Aviation

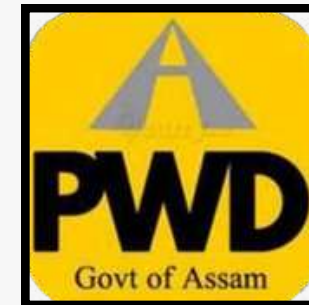


Cement



INDUSTRIES WE SERVE

Our Proud Clientelle



MESSAGE FROM THE FOUNDER & MD

“At GH2 Solar, we believe the future of industrial progress depends on how responsibly we generate energy. Solar power and green hydrogen are practical solutions that can help industries and infrastructure transition toward a cleaner, more sustainable future. Our focus is on building scalable and financially viable clean energy systems that create long-term impact.

For us, sustainability is about delivering measurable outcomes through innovation, efficiency, and strong partnerships. While solar energy forms the foundation of sustainable power generation, green hydrogen enables deeper industrial decarbonisation, together shaping a resilient and future-ready energy ecosystem.”

— Anurag Jain



Major Open Access Projects

Maharashtra – Jalgaon (20 MW, 33 kV):

A shovel-ready Open Access solar park designed to support long-term Corporate PPAs with fixed tariffs and zero transmission charges, enabling RE100 commitments and cost-efficient green power procurement.

Karnataka – Yadgir (10 MW, 33 kV):

A flexible bucket-filling Open Access project located in the GESCOM region, allowing C&I consumers to progressively scale renewable energy capacity under long-term Corporate PPAs.

Rajasthan – Bapini & Shekhala (80 MW, 132 kV):

A high-generation, shovel-ready Open Access solar project offering tariff stability, long-term energy savings, and strategic advantages under Rajasthan's favorable solar policy.



Reach out to us



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