



Powering  
Industry with  
**SOLAR &  
GREEN  
HYDROGEN**

[www.gh2solar.com](http://www.gh2solar.com)

# Who We Are

GH2 Solar Limited is building India's green hydrogen economy end to end from electron to molecule and molecule to mobility as an integrated clean-energy company spanning electrolyzer manufacturing, large scale green hydrogen production, hydrogen refuelling infrastructure, and downstream green derivatives including green ammonia, green methanol, and other hydrogen-based fuels. The company is establishing a 105 MW electrolyzer manufacturing facility in Madhya Pradesh and developing a 10,500 TPA green hydrogen plant under India's National Green Hydrogen Mission,

powered by renewable energy, while simultaneously advancing hydrogen refuelling stations to drive adoption across mobility, logistics, and industrial transport. Backed by in-house technology development, strategic global partnerships, and a strong solar and BESS foundation, GH2 Solar aims to make green hydrogen and its derivatives affordable, scalable, and integral to India's decarbonization and energy-security goals.



## 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

# ELECTROLYSER MANUFACTURING

GH2 Solar designs and manufactures alkaline electrolyser systems for continuous green hydrogen production, engineered for safe, stable, and long-life operation under variable renewable power conditions with high lifecycle efficiency.

Through a strategic joint venture with South Korean technology partner AHES, the company is establishing a state-of-the-art manufacturing facility in Morena, Madhya Pradesh, combining proven global technology, rigorous quality systems, and phased localisation of critical components to deliver reliable, scalable electrolyser solutions for India's green hydrogen market.

High Stack Efficiency - 83%

Low Power Consumption 4.2 KWh/Nm<sup>3</sup>

Design Life upto 25 years

Capacity Range upto 7MW



# FACILITATING GREEN HYDROGEN DERIVATIVES



## Green Ammonia

At GH2 Solar, we develop and execute green ammonia projects as an integrated extension of green hydrogen production. Leveraging the ~180 million TPA global ammonia market and its established storage, shipping, and handling infrastructure, we deliver end-to-end solutions covering renewable power integration, electrolyser selection and sizing, hydrogen conditioning, Haber-Bosch synthesis, utilities, and balance-of-plant systems. Our capability extends across FEED, detailed engineering, EPC execution, and commissioning, enabling efficient hydrogen conversion, large-scale storage, and export-ready green ammonia facilities that directly replace grey ammonia in fertilisers, industrial processes, and emerging maritime fuel applications.

## Green Methanol

At GH2 Solar, we execute green methanol projects through tightly integrated power-to-molecule system design. Green methanol's liquid state allows seamless utilisation of existing storage, pipeline, and bunkering infrastructure, reducing deployment complexity. We provide end-to-end project delivery encompassing renewable energy sourcing, green hydrogen generation, CO<sub>2</sub> integration, methanol synthesis process design, and downstream fuel handling infrastructure. Our scope includes FEED, EPC, and plant integration, enabling scalable production of green methanol for marine fuel applications and chemical feedstock use across energy and industrial value chains.



## e-SAF (Electro-Sustainable Aviation Fuel)

At GH2 Solar, we enable e-SAF as a core power-to-liquid (PtL) pathway for aviation decarbonisation, recognising its full drop-in compatibility with existing aircraft and airport fuel systems. We develop and execute e-SAF projects on an end-to-end basis, integrating low-cost renewable power, green hydrogen production, CO<sub>2</sub> capture or sourcing, and PtL fuel synthesis units. Our capabilities span system configuration, FEED, EPC execution, utilities integration, and commissioning, ensuring technically robust, scalable e-SAF facilities aligned with aviation fuel quality standards and long-term offtake requirements.

# GREEN HYDROGEN PROJECTS AND CAPABILITIES

## Overview

GH2 Solar has executed green hydrogen projects under EPC and BOO models. Projects cover end-to-end from concept to commissioning of hydrogen production, storage, and utilisation. Our built assets operate across ports, remote regions, and industrial facilities.

## Key Projects

### ➤ VOC Port, Tuticorin | Green Hydrogen Demonstration ( Government of India )

Turnkey EPC and O&M project delivering 10 Nm<sup>3</sup>/hr on site green hydrogen using renewable-powered alkaline electrolysis, with integrated storage and fuel cell power for port decarbonisation, awarded by Government of India.



### ➤ NHPC, Leh | Hydrogen Fuel Cell Microgrid ( Government of India )

High-altitude hydrogen microgrid with 20 Nm<sup>3</sup>/hr alkaline electrolysis (99.99% purity, 30 bar) feeding a 25 kW fuel cell, engineered for extreme cold and remote operations.

### ➤ Commercial & Industrial Fuel Cell Systems

Hydrogen fuel cell-based backup power systems deployed for a leading e-commerce facility, replacing diesel gensets and enabling silent, low-emission, uninterrupted power.



### ➤ KP Group | Green Hydrogen & Refuelling Infrastructure

1 MW green hydrogen production plant with integrated hydrogen refuelling station supporting heavy-duty captive mobility applications.

### ➤ Green Ammonia Project | GH2 Solar, AHES & KP Group

Integrated green hydrogen-to-ammonia project targeting 100,000 TPA green ammonia capacity for industrial and export markets.



# SOLAR & BESS (RTC)

GH2 Solar delivers end-to-end Solar and BESS solutions across design, EPC, operations, and intelligent storage, enabling reliable, scalable, and round-the-clock clean energy for C&I consumers.

## MARQUEE CLIENTS



## Major Open Access Projects

### Maharashtra – Jalgaon (20 MW, 33 kV):

Shovel-ready Open Access solar park enabling long-term, fixed-tariff Corporate PPAs with zero transmission charges, supporting RE100 and cost-efficient green power.

### Karnataka – Yadgir (10 MW, 33 kV):

Flexible bucket-filling Open Access project in GESCO region, allowing C&I consumers to scale capacity progressively under long-term Corporate PPAs.

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

High-generation, shovel-ready Open Access solar project offering tariff stability and long-term savings under Rajasthan's favorable solar policy.

## IMPACT AT SCALE

- 175+ MW under development
- 1GW+ in active pipeline
- 2GW+ portfolio target by 2030



### SECI ISTS Project Awarded:

50 MW Solar + 25 MW / 100 MWh BESS Project, enabling round-the-clock renewable power, grid stability, and long-term ESG-aligned returns.

# INDUSTRIES WE SERVE

At GH2 Solar, industrial progress is driven by responsible execution, not scale alone.

We deliver practical solar and clean energy solutions designed to decarbonize industries with engineering rigor and economic realism. Every project is built for long-term operability, guided by resource availability, cost efficiency, and market dynamics. Beyond infrastructure, we remain committed to creating lasting value for industries, communities, and the environment.



**Commercial &  
Industrial Campuses**



**Manufacturing &  
Warehousing**



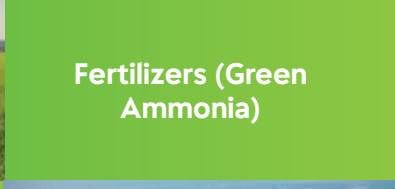
**Refineries &  
Petrochemicals**



**CGD  
Blending**



**Fertilizers (Green  
Ammonia)**



**Steel & Metal  
Processing**



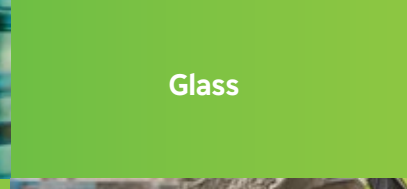
**Ports & Green  
Shipping**



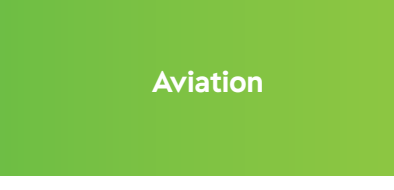
**Data Centers &  
Backup Power**



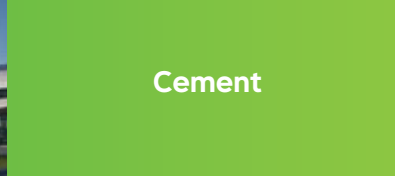
**Green Mobility &  
Hydrogen Refuelling**



**Glass**



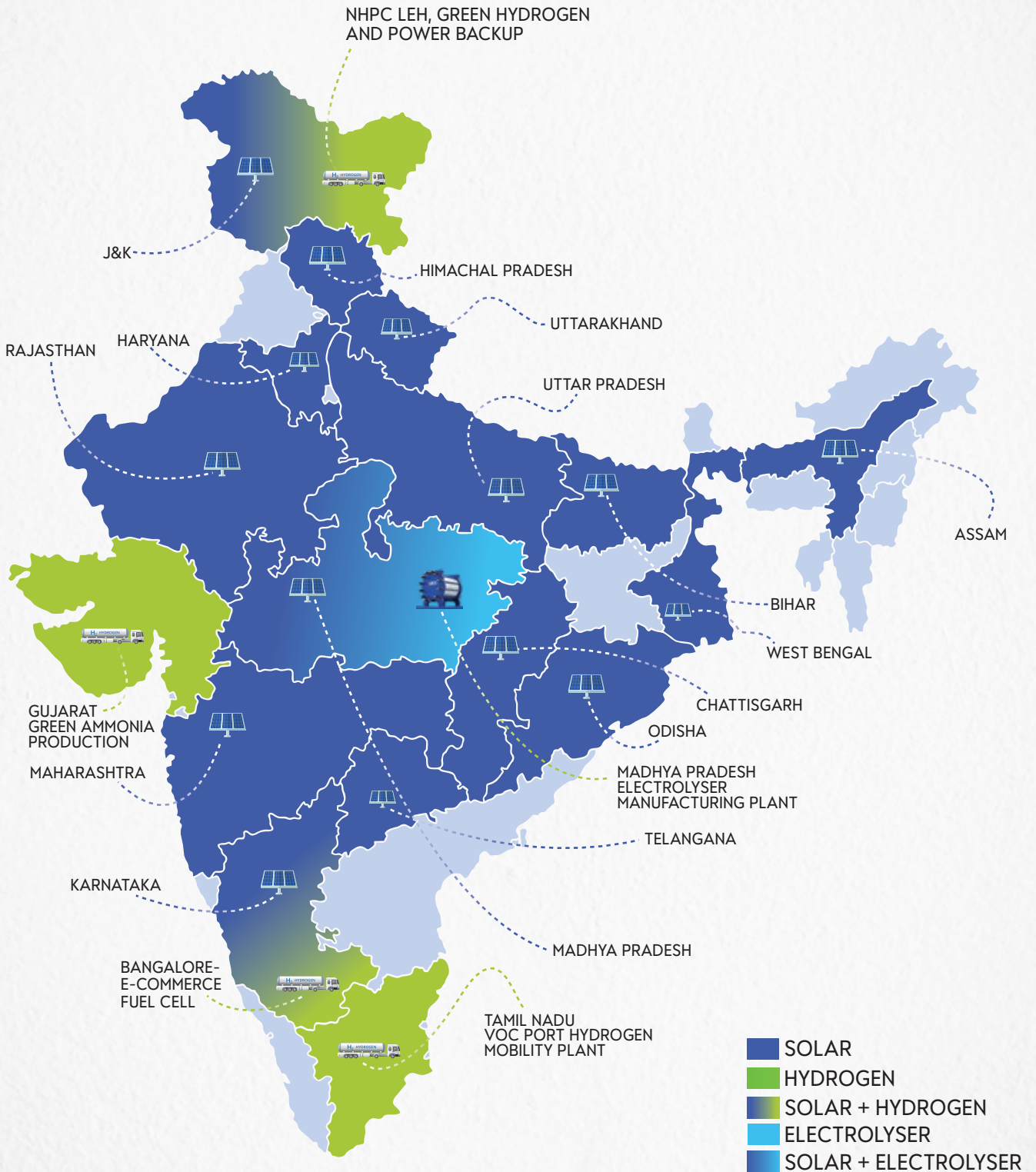
**Aviation**



**Cement**



# OUR PRESENCE



**Reach out to us**

[bd@gh2solar.com](mailto:bd@gh2solar.com)

9<sup>th</sup> Floor, Q Tower A-8, Block A, Sector 68, Noida, NCR-201301

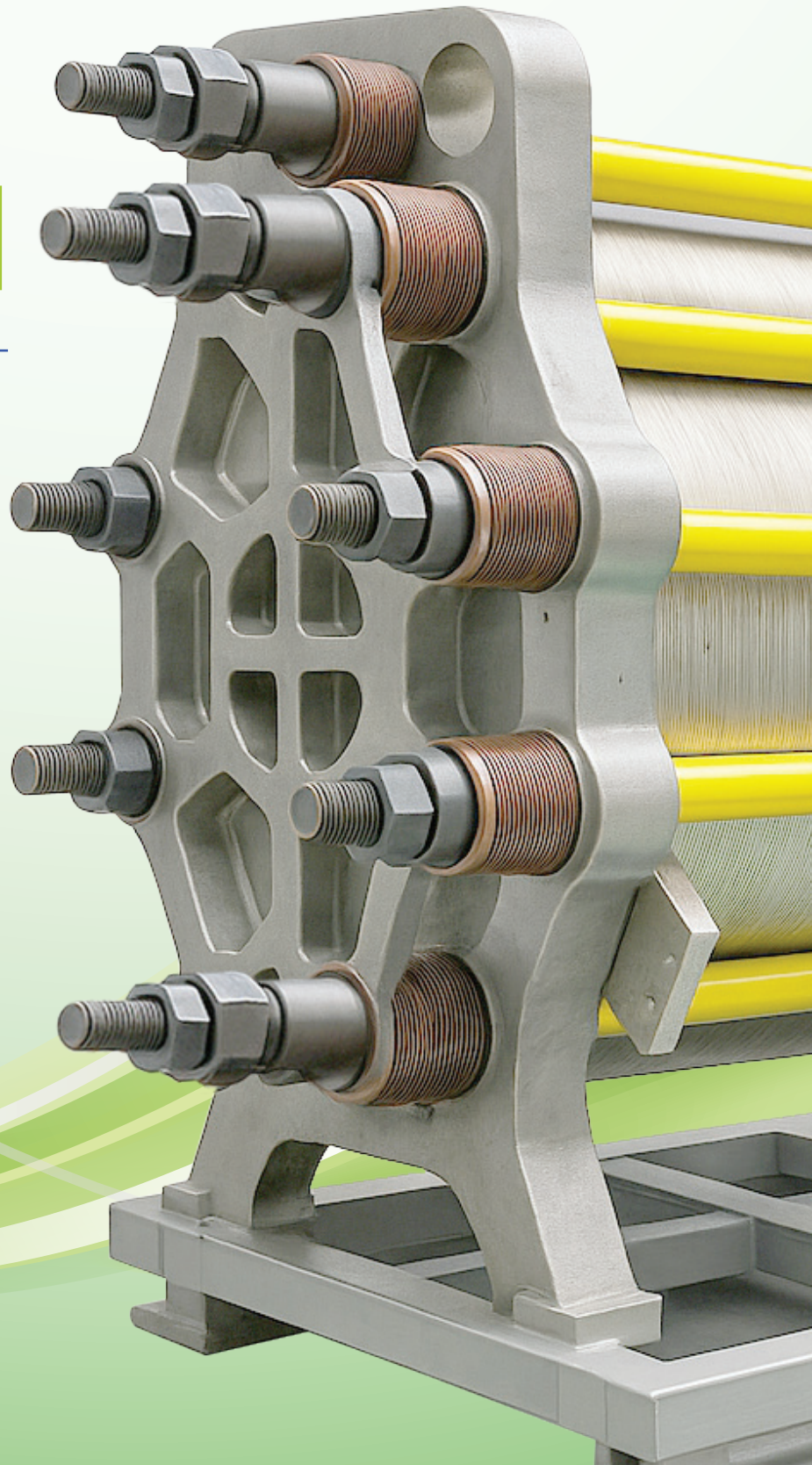
Welcome to the

# **GREEN WORLD OF HYDROGEN**

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Alkaline  
Electrolyser  
Series

*Reinventing  
Energy*



# ABOUT GH<sub>2</sub>-AHES ELECTROLYSER

Our manufacturing facility in Gwalior, Madhya Pradesh, is a state-of-the-art hub dedicated to green hydrogen technology. Spanning seven acres, the plant features automated assembly lines, precision testing benches, and advanced quality-control systems that ensure world-class performance and reliability.

Designed with scalability at its core, the facility currently supports 105 MW of electrolyser production capacity, with provisions to expand up to 500 MW. This makes it one of India's largest and most advanced clean-energy manufacturing centers, setting new benchmarks in innovation and sustainability.



## HIGH EFFICIENCY

The GH<sub>2</sub> AHES Electrolyser delivers >83 % stack efficiency, setting a benchmark in performance and hydrogen output per unit of power consumed.



## LOW POWER CONSUMPTION

Engineered for cost competitiveness, it operates at just = 4.2 kWh/Nm<sup>3</sup> H<sub>2</sub>, ensuring maximum energy savings and long-term operational viability.



## BINDER-FREE CATALYST TECHNOLOGY

Its binder-free electrodes and metal catalysts enhance durability while reducing dependency on platinum and iridium, making it both sustainable and economical.



## LONG LIFE & RELIABILITY

Built with heterostructure electrode design, the system offers over 20 years of design life, minimal degradation, and high structural stability in demanding industrial conditions.



## FUTURE-READY DESIGN

With modular construction and easy stack replacement, the GH<sub>2</sub> AHES Electrolyser is flexible, scalable, and optimized for integration into solar -hydrogen and industrial decarbonization systems.

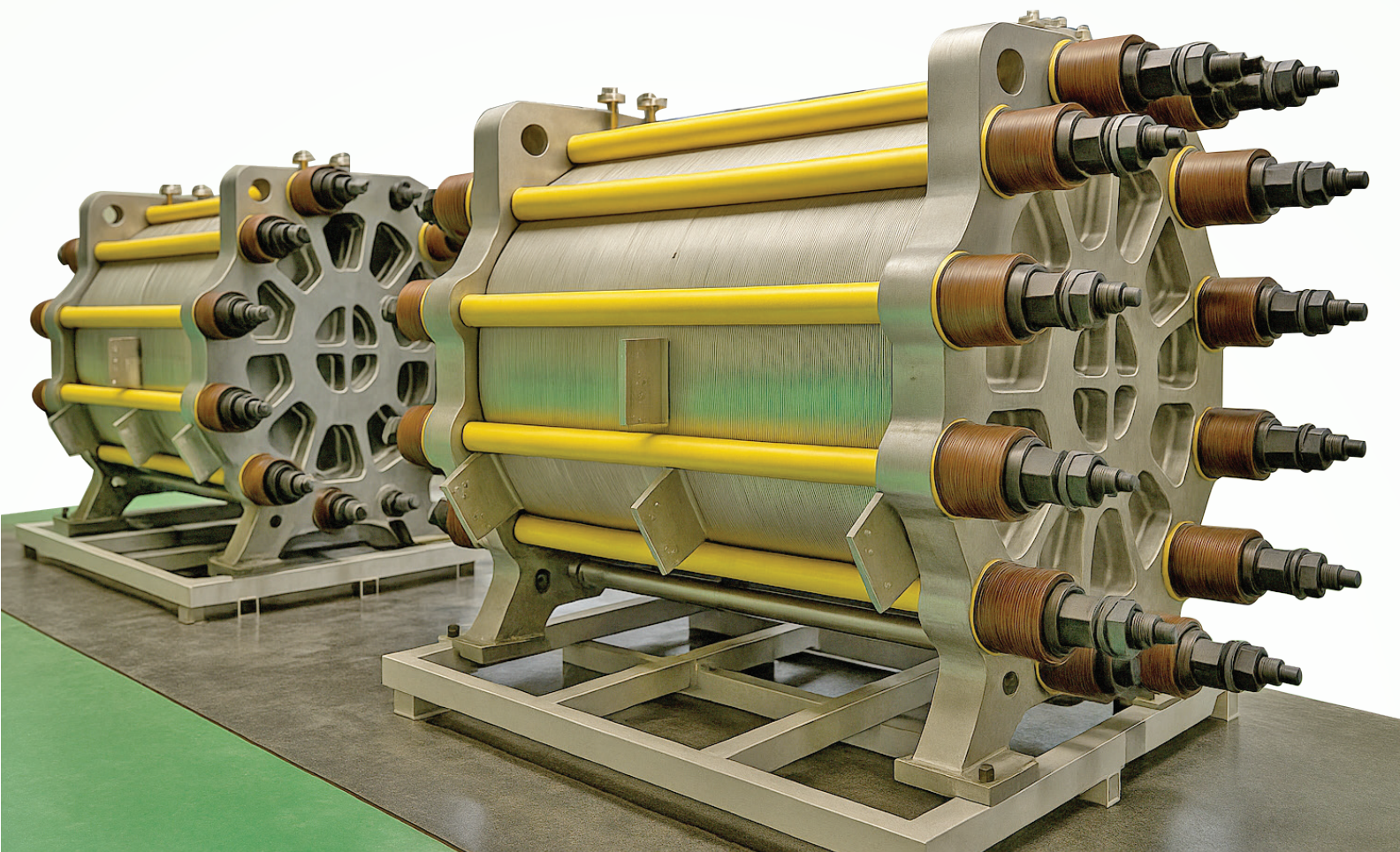


## MODULAR & SCALABLE

Offered in a range of module sizes of 5 KW to 7 MW, skid mounted or containerized with least footprint area & ready to be deployed with minimum site works.

# ELECTROLYZER TECHNICAL DATA TABLE

Category	AHQ 100	AHQ 200	AHQ 400	AHQ 1000
Power Class	<b>0.5 MW</b>	<b>1 MW</b>	<b>2 MW</b>	<b>5 MW</b>
Electrolyzer Type	Alkaline	Alkaline	Alkaline	Alkaline
System Design Life	25 years	25 years	25 years	25 years
Operation Range	30–110%	30–110%	30–110%	30–110%
<b>Production Capacity</b>				
Hydrogen Capacity (H <sub>2</sub> )	100 Nm <sup>3</sup> /hr	200 Nm <sup>3</sup> /hr	400 Nm <sup>3</sup> /hr	1000 Nm <sup>3</sup> /hr
Oxygen Capacity (O <sub>2</sub> )	50 Nm <sup>3</sup> /hr	100 Nm <sup>3</sup> /hr	200 Nm <sup>3</sup> /hr	500 Nm <sup>3</sup> /hr
<b>Gas Output &amp; Purity</b>				
H <sub>2</sub> Output Pressure	8–16 Bar(g)	8–16 Bar(g)	8–16 Bar(g)	8–16 Bar(g)
H <sub>2</sub> Purity	99.8 ± 0.1%	99.8 ± 0.1%	99.8 ± 0.1%	99.8 ± 0.1%
O <sub>2</sub> Purity	98.5 ± 0.1%	98.5 ± 0.1%	98.5 ± 0.1%	98.5 ± 0.1%
<b>Operating Conditions</b>				
Working Temperature	85 ± 5°C	85 ± 5°C	85 ± 5°C	85 ± 5°C
Current Density	4000 A/m <sup>2</sup>	4000 A/m <sup>2</sup>	4000 A/m <sup>2</sup>	4000 A/m <sup>2</sup>
DC Power Consumption	≤ 4.2 kWh/Nm <sup>3</sup> H <sub>2</sub>	≤ 4.2 kWh/Nm <sup>3</sup> H <sub>2</sub>	≤ 4.2 kWh/Nm <sup>3</sup> H <sub>2</sub>	≤ 4.2 kWh/Nm <sup>3</sup> H <sub>2</sub>
Hot /Cold Start	< 2 min/< 30 min	< 2 min/< 30 min	< 2 min/< 30 min	< 2 min/< 30 min



# ABOUT OUR GREEN ENERGY LEADERSHIP

A next-generation renewable energy company driving leadership in Green Hydrogen EPC, Green Hydrogen and its derivatives production, Electrolyser manufacturing, Solar EPC, and C&I Open Access.

Backed by strong investor confidence, government recognition under SECI's SIGHT program, and a robust project pipeline, we are building a differentiated platform to advance India's decarbonization goals. Our integrated solutions across green hydrogen, solar, and energy storage empower commercial and industrial clients to achieve net-zero targets with efficiency, innovation, and cost-effectiveness.

## OUR OFFERINGS



INDIGENOUS  
ELECTROLYSER  
MANUFACTURING



TURNKEY SOLUTION  
IN GREEN HYDROGEN  
PRODUCTION



BUILD OWN  
OPERATE (BOO)  
MODEL



GREEN HYDROGEN  
& DERIVATIVE  
PRODUCTION

## WHY CHOOSE GH2-AHES

As a Government recognized Entity through PLI(Performance Linked Incentives) scheme we offer you assured competitive price and reliable services

Our strong international partnership with AHES in electrolyser manufacturing helps us bring world class technology and expertise to you.



- Our proven EPC capabilities ensure bespoke solutions and rapid deployment.
- One of India's earliest entrants in fuel cell and refueling solutions.
- Our flexible commercial models are curated to minimize risk and maximize client value.

### INDUSTRIES WE SERVE

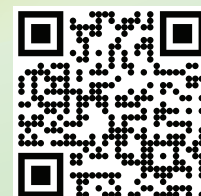
Fertilizers | Chemicals | Oil & Gas & Refineries | Glass | Steel | Cement Power  
Backup | Hydrogen Mobility | Ports & Export Hubs | Data Centers



9<sup>th</sup> Floor, Q Tower A-8, Block A, Sector 68 Noida, NCR - 201301



bd@gh2solar.com



# Powering a cleaner future with solar energy and green hydrogen.



— Innovating Energy for a Greener Tomorrow

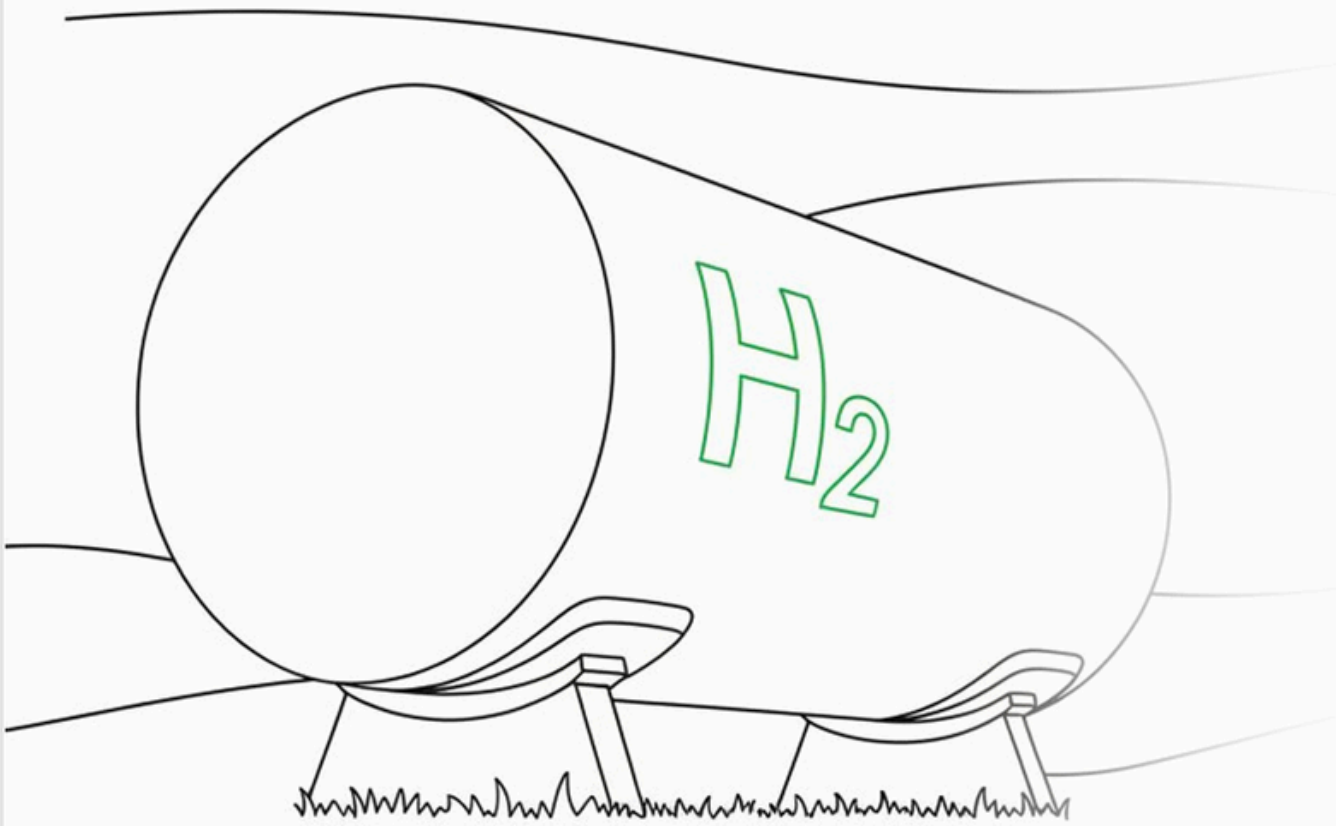
# Who We Are?

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

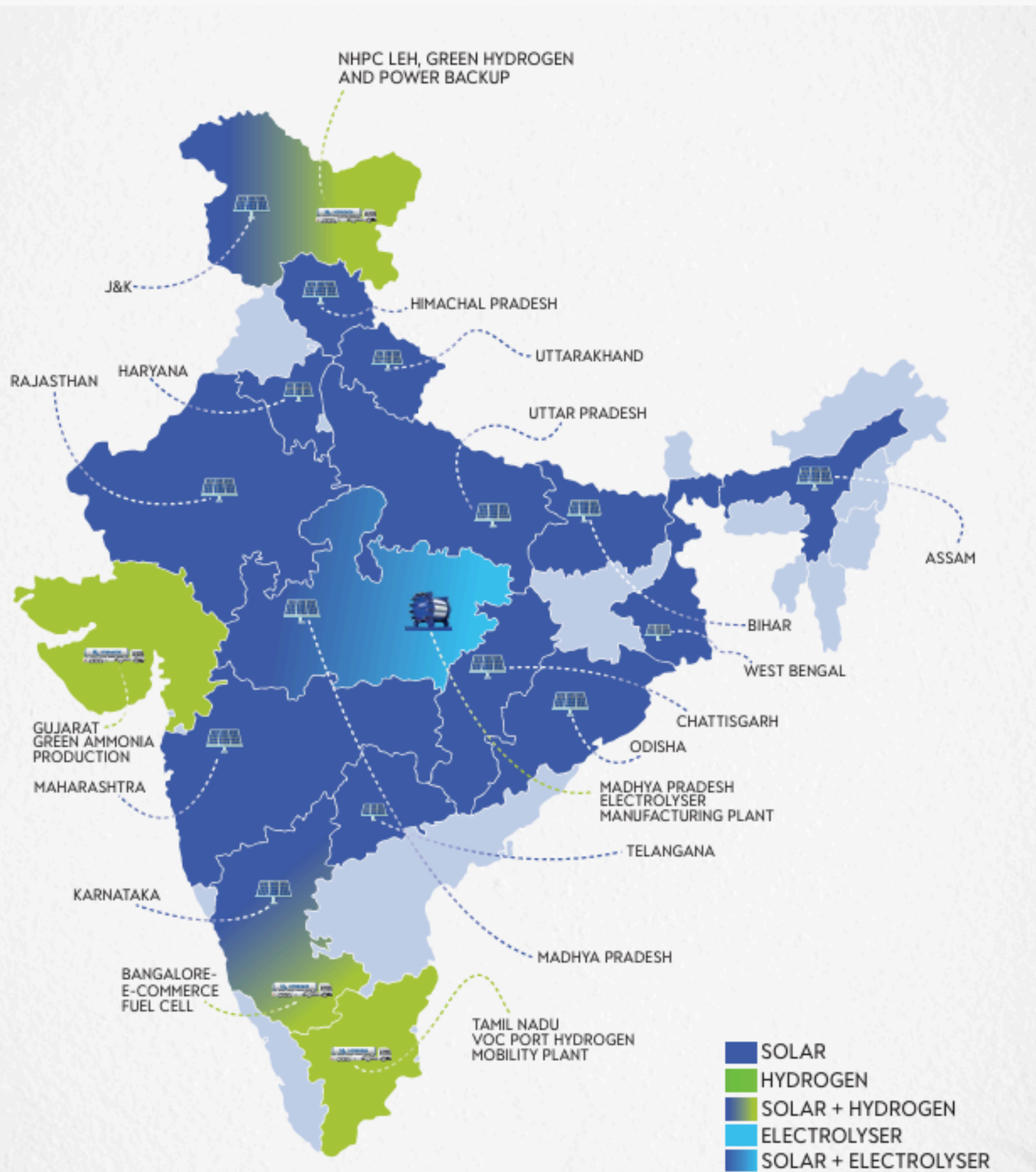
- Dedicated in-house O&M team ensures smooth, hassle-free operations.

## Proven Reliability

- Guaranteed uptime and performance assurance for consistent hydrogen production.



# Our Portfolio



# Solar Park



## Karnataka

<b>YAGDIR</b> Location	<b>33KV</b> Connectivity	<b>75MW</b> Park Capacity
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## Rajasthan

<b>BAPINI &amp; SHEKHALA</b>	<b>133 KV</b> Connectivity	<b>100 MW</b> Park Capacity
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## Maharashtra

<b>JALGAON</b>	<b>33 KV</b> Connectivity	<b>100 MW</b> Park Capacity
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**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



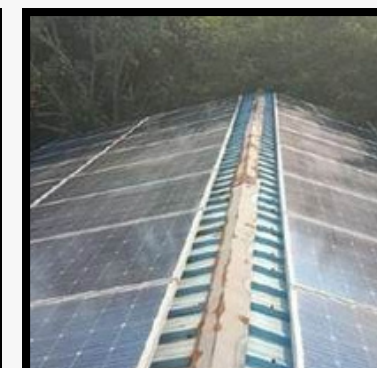
ONGC  
600 kw



NHDC  
600 kw



CREST  
445 kw



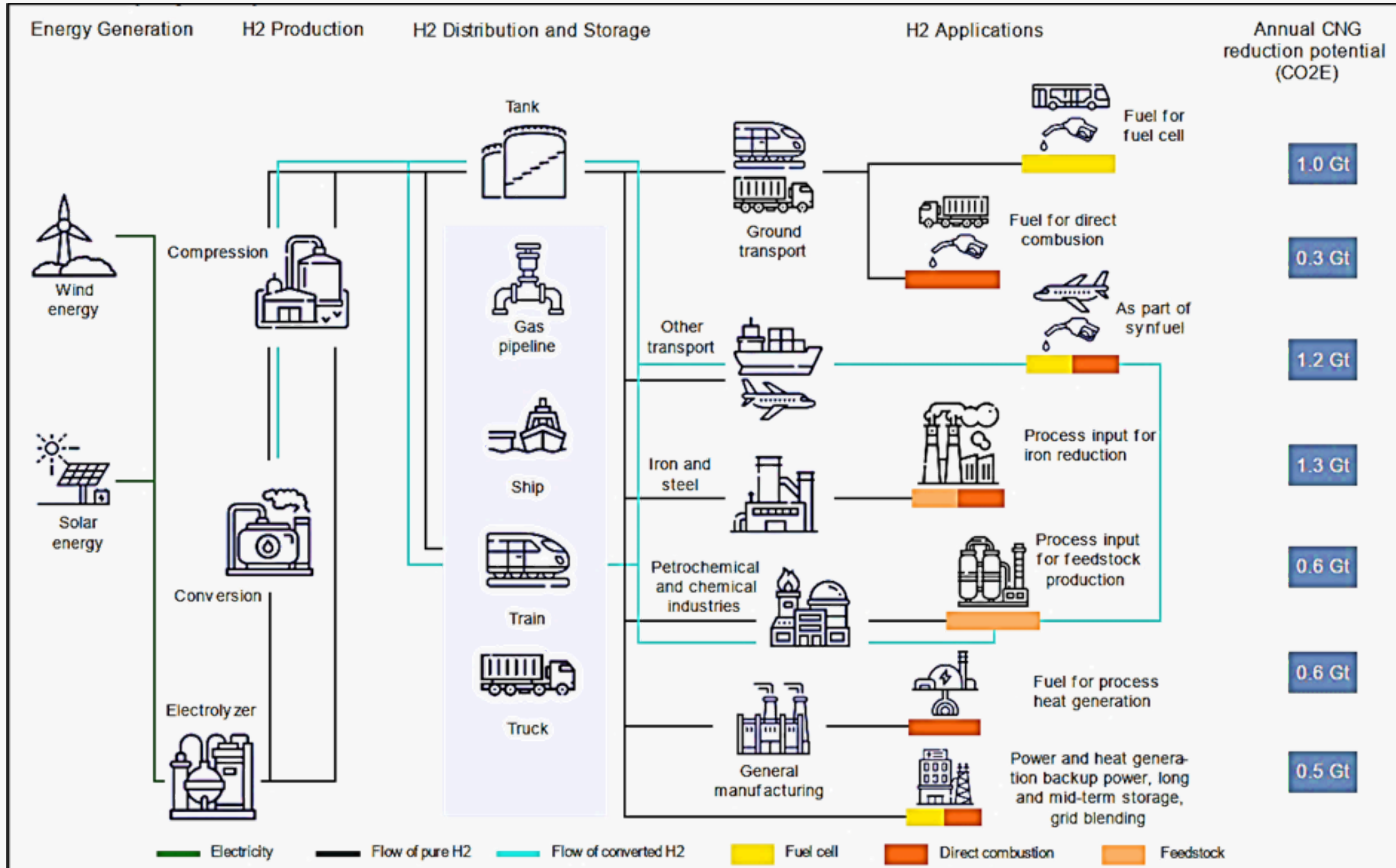
CEPT  
400 kw



# 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 Nm<sup>3</sup>/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 Nm<sup>3</sup>/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



THIS IS WHAT NEXT-GEN ENERGY LOOKS LIKE.

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.





# ALKALINE TECHNOLOGY ELECTROLYSER

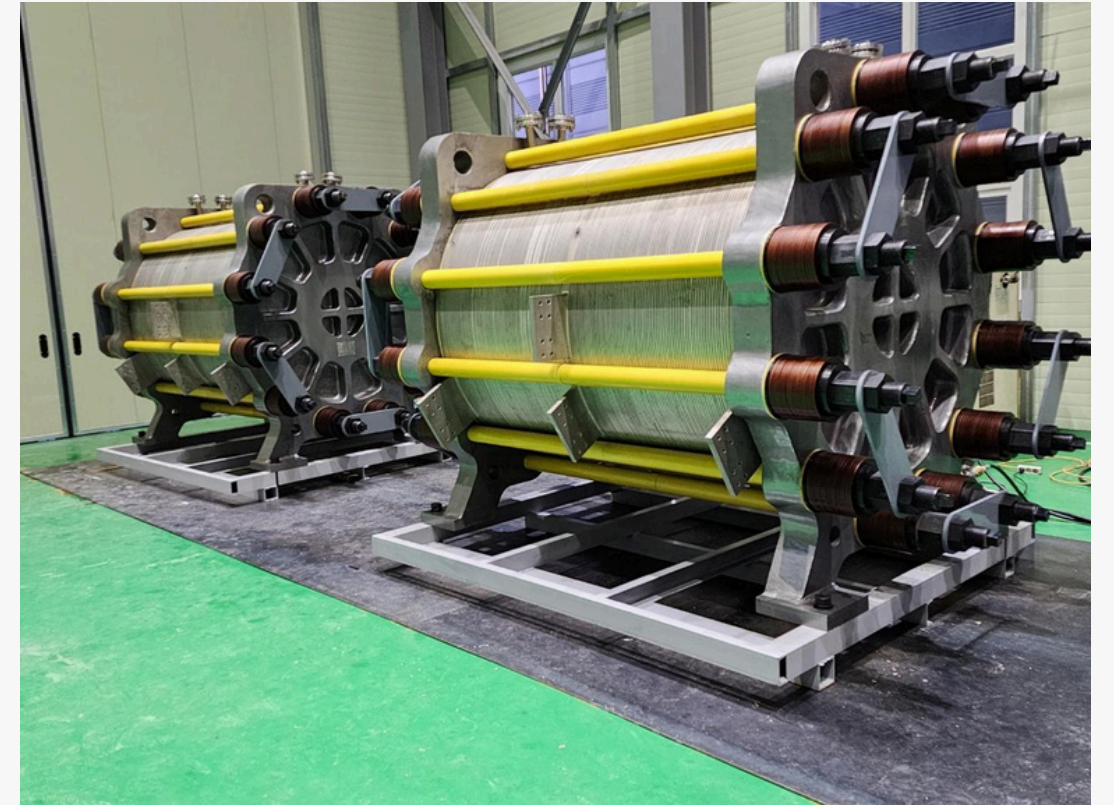
# **GH2 SOLAR ELECTROLYSER MANUFACTURING FACILITY – INDIA**

**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 <sup>3</sup> /hr
Power Consumption DC	4.2 Kwh/ Nm <sup>3</sup>
Water Consumption	1 l/Nm <sup>3</sup>
Standard operation Range	30% -100 %
H <sub>2</sub> Quality Outlet	99.80%
H <sub>2</sub> Quality post Treatment	Up to 99.999%
Outlet Pressure	~16 Bar
Temperature	Upto 90° C

Standard Manufacturing Range varries from 5 Nm<sup>3</sup> 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

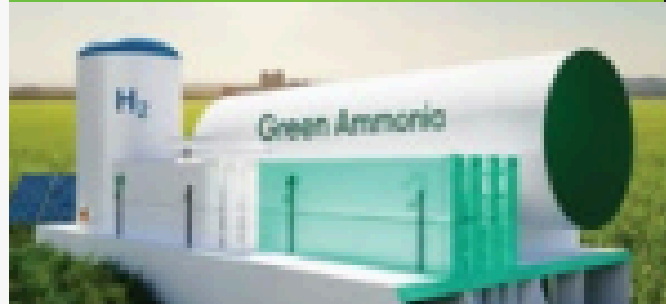


Manufacturing & Warehousing

Refineries & Petrochemicals



CGD Blending



Fertilizers (Green Ammonia)



Steel & Metal Processing

Ports & Green Shipping



Data Centers & Backup Power



Green Mobility & Hydrogen Refuelling



Glass

Aviation

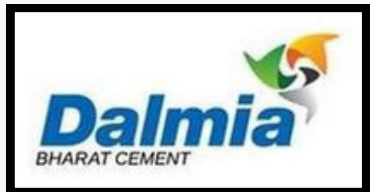


Cement



# 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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