



HNO
INTERNATIONAL



**Scalable Green Hydrogen Energy:
Production, Refueling, and Power**

Pitch 2024

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Who We Are

HNO International (HNOI) is a **green hydrogen product development company.**

We develop hydrogen production and dispensing technology to support the implementation of a **global zero-emission energy infrastructure.**

Our mission: to provide cost-effective, modular, scalable systems that produce, compress, store, and dispense hydrogen.

Company Highlights:

- Over 15 years in hydrogen R&D experience
- Intl patents for hydrogen system components
- Strong partnerships with industry leaders
- Publicly traded (OTC: HNOI)



Common Challenges



Lack of Infrastructure

Large, centralized hydrogen facilities result in prohibitive costs and complex logistics. This stunts the scalability, adaptability.



Cost and Time

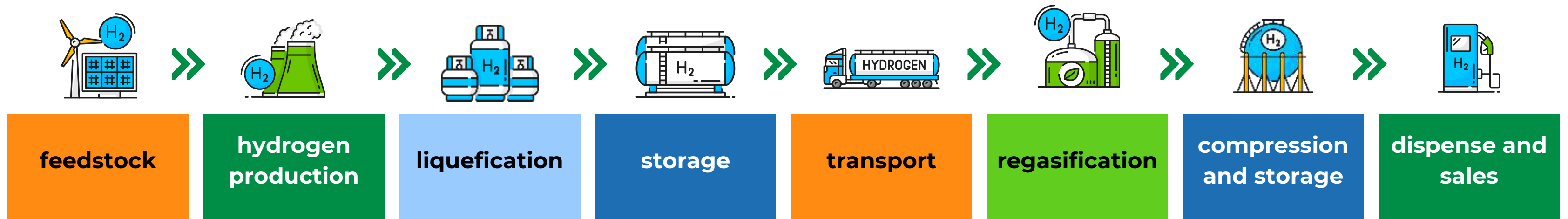
Current hydrogen production projects have projected costs in the billions, with project timelines of 5+ years. This limits the widespread integration of hydrogen technology.



Market / End Users

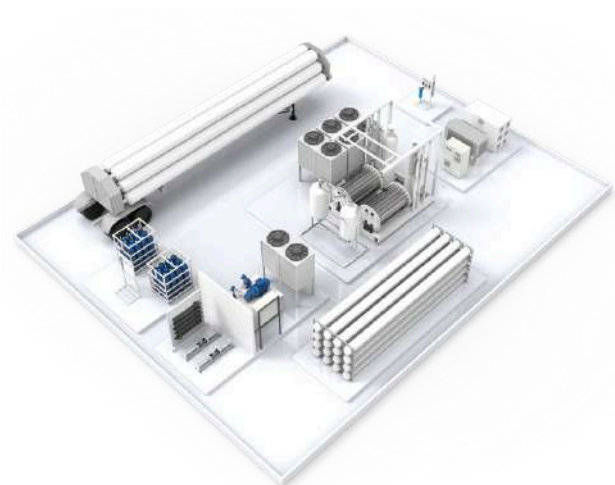
Penetrating the market and reaching end users can be difficult due to limited infrastructure, distribution networks, and awareness.

The Hydrogen Distribution Dilemma



- Limited production availability
- Hydrogen losses in transport
- High costs of distribution
- High carbon footprint in distribution

Our Solution



40' Containers in 2025

SHEP™

Scalable Hydrogen Energy Platform



CHRS™

Compact Hydrogen Refueling Station



Upgraded dispenser



Modular, Scalable



Less Cost, Less Time



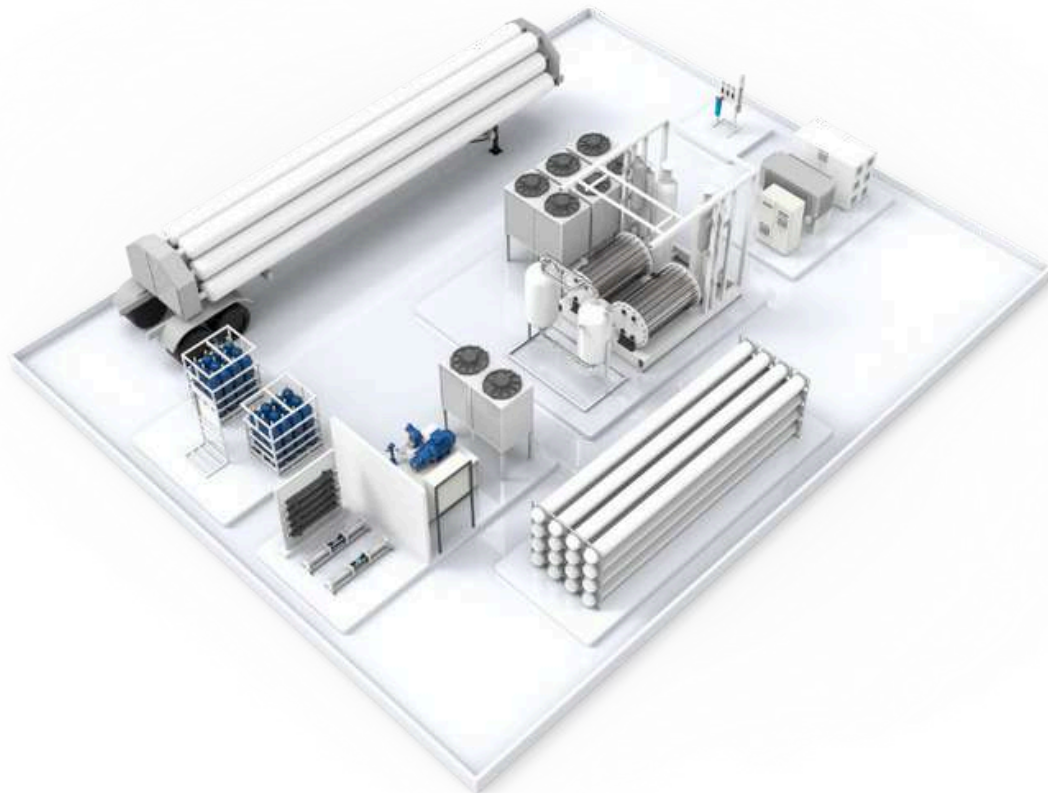
Diverse Markets



Made in USA

SHEP™

Scalable Hydrogen Energy Platform



SHEP is a **scalable hydrogen energy platform** built on a 1.25MW alkaline electrolyzer that produces up to 500kg per day of compressed green hydrogen from water. This platform caters to a diverse and flexible set of energy needs, with integrated software to manage the production and sale of hydrogen across any hydrogen network.

Specs

- 500kg/day
- Smaller footprint
- 350/700 bar
- Green or grid power

Capacity

- 70 class 8 semi trucks per week
- 140 buses per week
- Up to 100 vehicles per day
- Up to 200 forklifts per day
- Up to 500,000 kWh of energy with fuel cell per month



40' Containers in 2025

CHRS™

Compact Hydrogen Refueling Station



Upgraded dispenser

CHRS is a **compact hydrogen refueling station** designed to produce, store, and deliver high-quality, fuel cell-grade green hydrogen from water using an electrolyzer. CHRS is scalable and represents a green future for communities and entities seeking to embrace hydrogen-based technologies.

Specs

- Dispensing
- 220-240V
- 350/700 bar

Capacity

- Slow and fast fill
- Up to 1/kg per minute

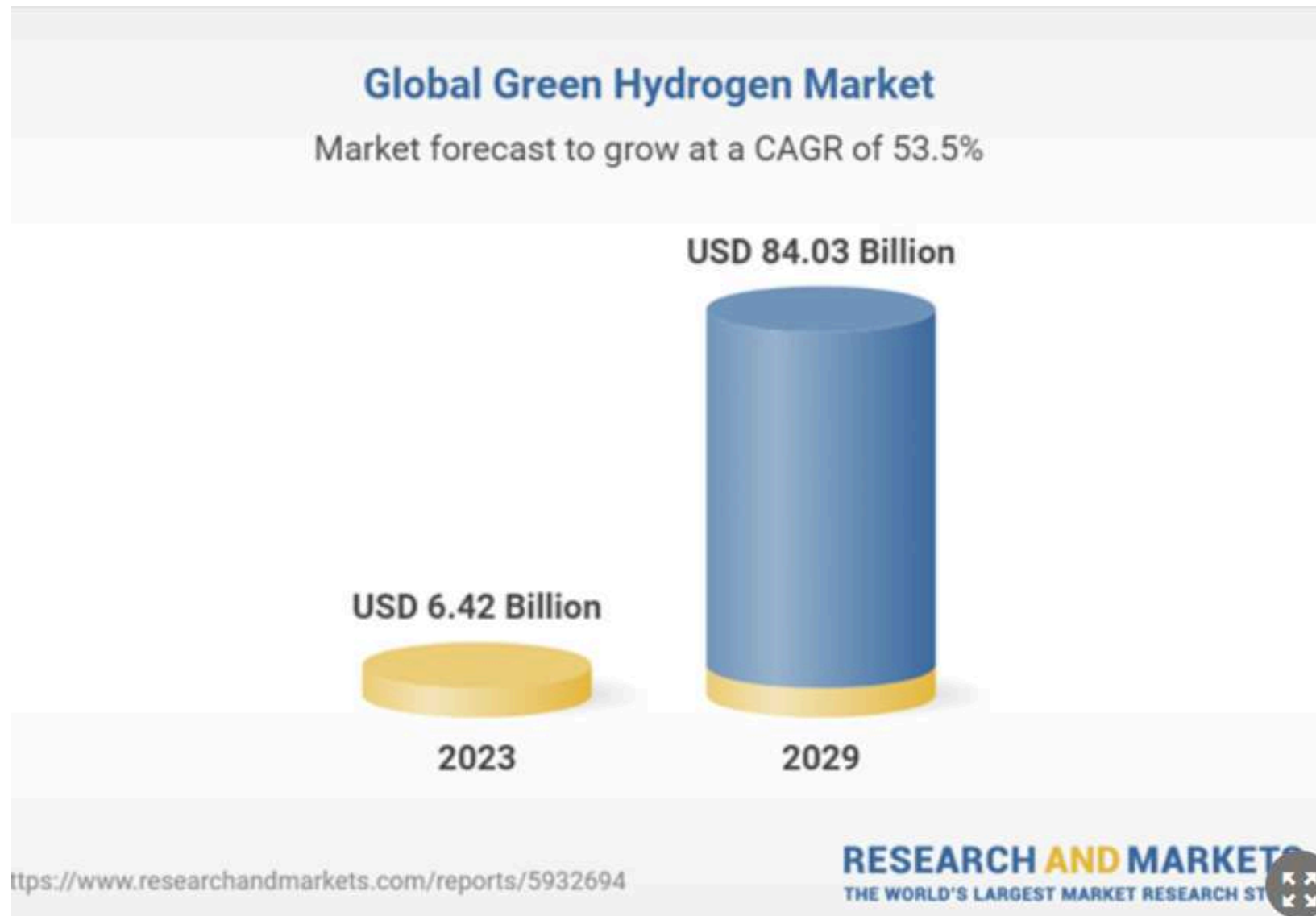
Safety and Standards



Our equipment is built to key hydrogen standards and codes:

- American Society of Mechanical Engineers (ASME):
 - ASME B31.12, ASME section VIII
- API RP 500, IEC 60079 series, IEC 61508, CSA B51, UL 508A, OSHA 1910.103.
- EPA regulations, NEMA 250
- International Fire Code (IFC)
- International Organization for Standardization (ISO):
 - ISO 22734, ISO 14687- 2019
- National Electric code (NEC):
 - NFPA 70, NFPA 2 and NFPA 55

Market Size



The hydrogen market is gradually expanding in both the United States and globally. This growth is driven by the increasing need to establish a hydrogen infrastructure to support the expansion of production and refueling efforts.

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Current Hydrogen Production

\$ 170.14 Billion

The global hydrogen generation market size was estimated at USD 170.14 billion in 2023 and is expected to grow at a compound annual growth rate (CAGR) of 9.3% from 2024 to 2030.

Hydrogen Refueling

\$ 311.05 Million

The global hydrogen fueling station market size was accounted for USD 311.05 million in 2022, and it is expected to surpass around USD 1,495.16 million by 2032, growing at a CAGR of 17% during the forecast period 2023 to 2032.

Green Hydrogen

\$ 84.03 Billion

The global green hydrogen market is expected to grow at a CAGR of 53.53% from 2023 to 2029, reaching USD 84.03 Billion by 2029.

Go To Market



Our Company leverages 15 years of hydrogen expertise and collaboration with experienced integration partners and sub-system providers.



With our unique capabilities, we are strategically developing regional and local hydrogen production facilities for industry.

SHEP Production and Refueling

One SHEP can fuel:

- 70 semi-trucks per week
- 140 buses per week
- 100 vehicles per day
- 200 forklifts per day
- *500,000kWh w/ fuel cell per month*

Our technology can be scaled to produce more hydrogen as demand increases.



Hydrogen truck refueling and rest stop



Hydrogen passenger vehicle rideshare program



Hydrogen bus bay with solar roof



Hydrogen garbage trucks

H2 Facility | Colorado Springs, Colorado

Clean Hydrogen Production and Refueling

With our electrolyzer manufacturer Element One Energy, we have successfully completed our alkaline electrolyzer prototype, capable of producing 100 kg per day of fuel cell-grade hydrogen.

This prototype serves as a crucial step in validating our operational proof of concept. The initial results have been promising, demonstrating the efficacy of our scalable hydrogen technology.

Specs

- 100 kg per day of compressed fuel-cell grade hydrogen
- Alkaline electrolysis



Flagship Facility | Katy, Texas

Green Hydrogen Production and Refueling

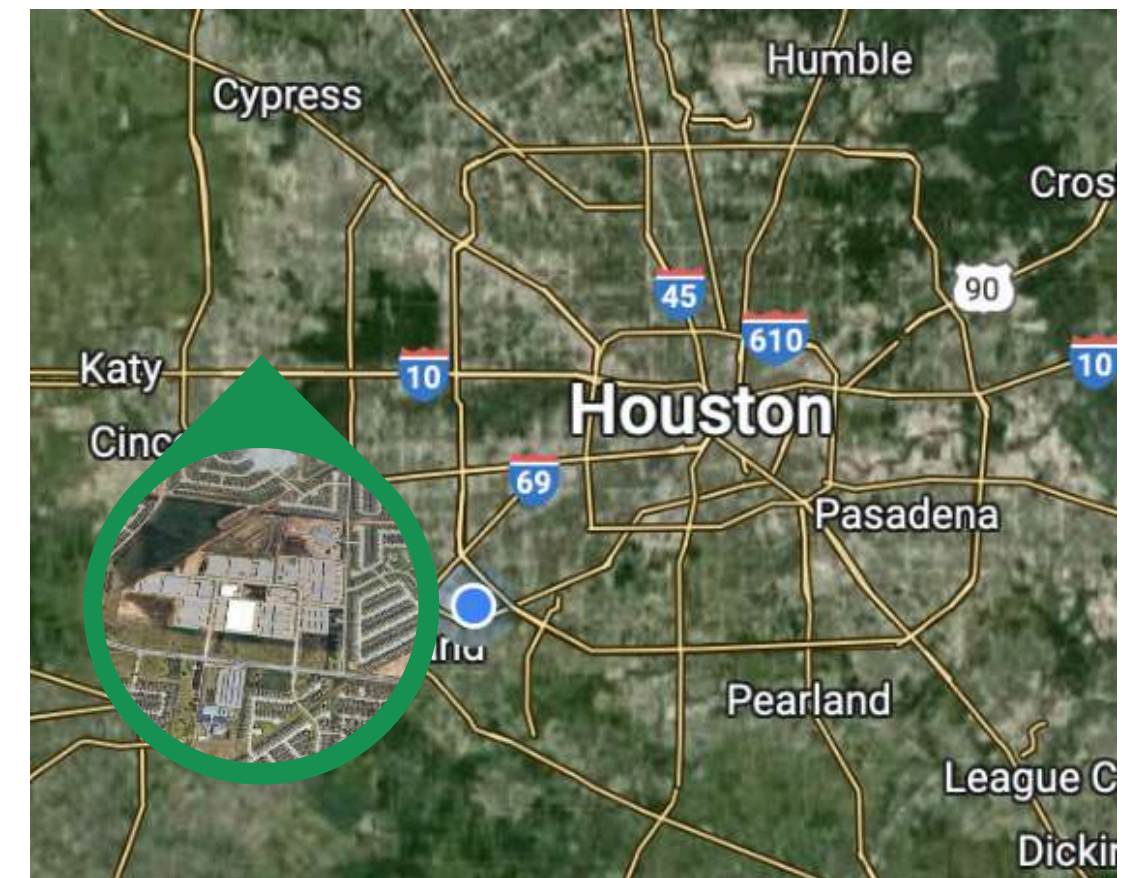
HNOI is spearheading the development of a localized, scalable, green hydrogen production and refueling facility in Houston's Energy Corridor in Katy, TX, strategically located near major highways and commercial/industrial zones.

Specs

- 500 kg per day of compressed fuel-cell grade hydrogen
- Two hydrogen fueling stations
- Alkaline electrolysis
- Renewable Energy Credits (RECs)

Capacity

- 70 class 8 semi trucks per week
- 140 buses per week
- Up to 100 vehicles per day
- Up to 200 forklifts per day



Highway Refueling | California

Developing Hydrogen Infrastructure for Truck Fleets

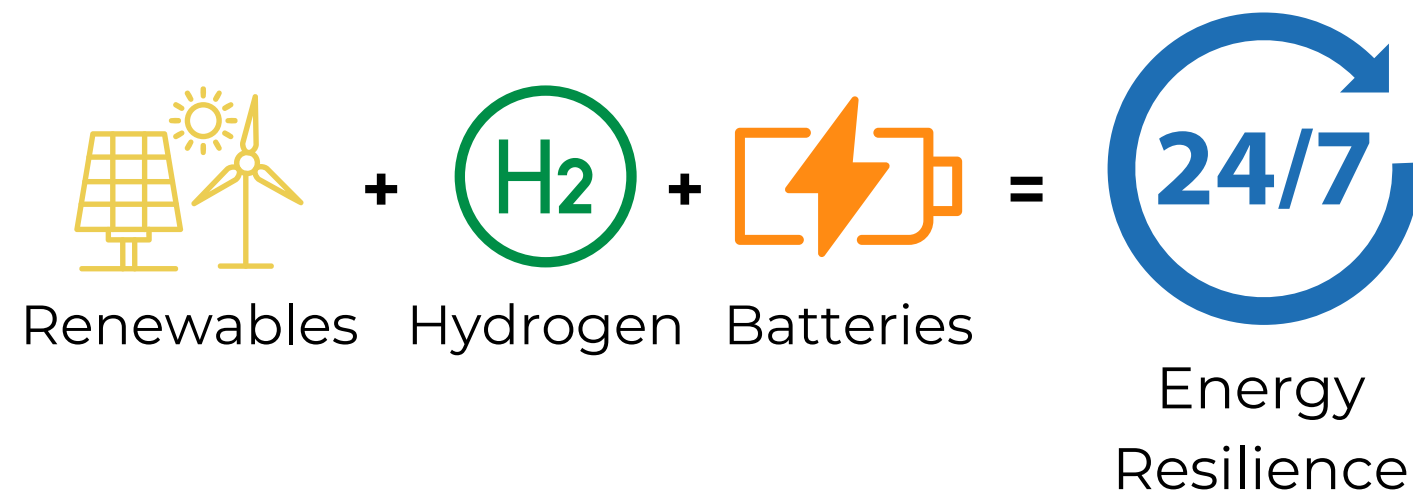
HNOI is coordinating with semi-truck fleet operators in California to place **8 hydrogen production and refueling facilities** along **key trade and transport routes.**



Hydrogen Grid and Energy Storage



Hydrogen enables reliable power for communities, datacenters, currency mining, and more



Power Generation

With a fuel cell, a single SHEP can produce enough hydrogen *in one month* to generate **one year of electricity for:**

- 50 homes
- 28 crypto miners

Grid support

Uninterrupted baseload electricity with renewables, hydrogen, and batteries help to provide **grid stability and reliability.**

Load management

Batteries provide **energy during high peak loads** and absorb unused energy during lower power consumption.

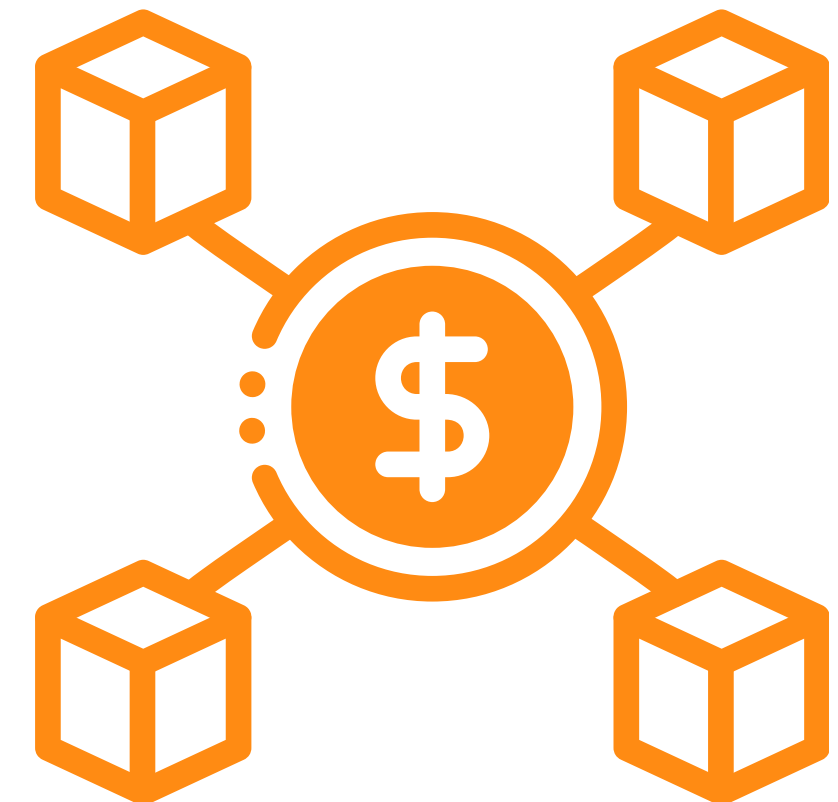
Fuel Cell Generator

Green Electricity for Digital Currency Mining

HNOI is developing a demo for a **6 kilowatt hydrogen fuel cell generator to energize bitcoin miners.**

Mining facilities require a stable and substantial power supply, often leading to significant energy consumption and carbon emissions.

Our goal is to offer low-cost, energy production for the power intensive Bitcoin mining and High Performance Computing (HPC) data centers, promoting sustainability, reliability, and efficiency in the industry, behind the meter.



Hydrogen in the News

US lays foundations of new hydrogen industry [\(link\)](#)

Vehicle manufacturer unveils America's first hydrogen garbage truck [\(link\)](#)

The Global Green Hydrogen Market Is Expected to Grow at a CAGR of 53.53% from 2023 to 2029 [\(link\)](#)

HNO International Spearheads Scalable Hydrogen Energy Platform (SHEP™) to Pioneer Green Hydrogen Production in 2024 [\(link\)](#)

Korea Unveils World's First Hydrogen Fuel Cell Powered Apartment Complex [\(link\)](#)

Today's Energy Challenges

Why the US Grid Isn't Ready for the Energy Transition [\(link\)](#)

Power-Hungry AI Datacenters Could Push the US Grid to the Limit [\(link\)](#)





Our Team



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