



HyGridTM

Intelligent
Hydrogen
MicroGrid

Anywhere & Everywhere PowerTM

The HNOI HyGrid™ is a fully integrated, next-generation clean microgrid energy system, designed to provide continuous, zero-carbon electricity through a seamless combination of solar power, hydrogen storage, and intelligent fuel cell technology—delivering reliable energy solutions **anywhere and everywhere**, from remote sites to critical infrastructure.



Key Components

HyGrid™ – intelligent hydrogen microgrid system includes these essential components:



Proprietary 4MW Solar Power System

Delivers clean, 24/7 uninterrupted renewable energy to any location.



Fuel Cell Stack (5kW to 500kW+)

Converts hydrogen into electricity during peak demand or outages.



Electrolyzer Unit

Converts surplus renewable energy into hydrogen fuel.



Energy Management System (EMS)

AI/ML-based control system for load balancing, peak shaving, and predictive maintenance.



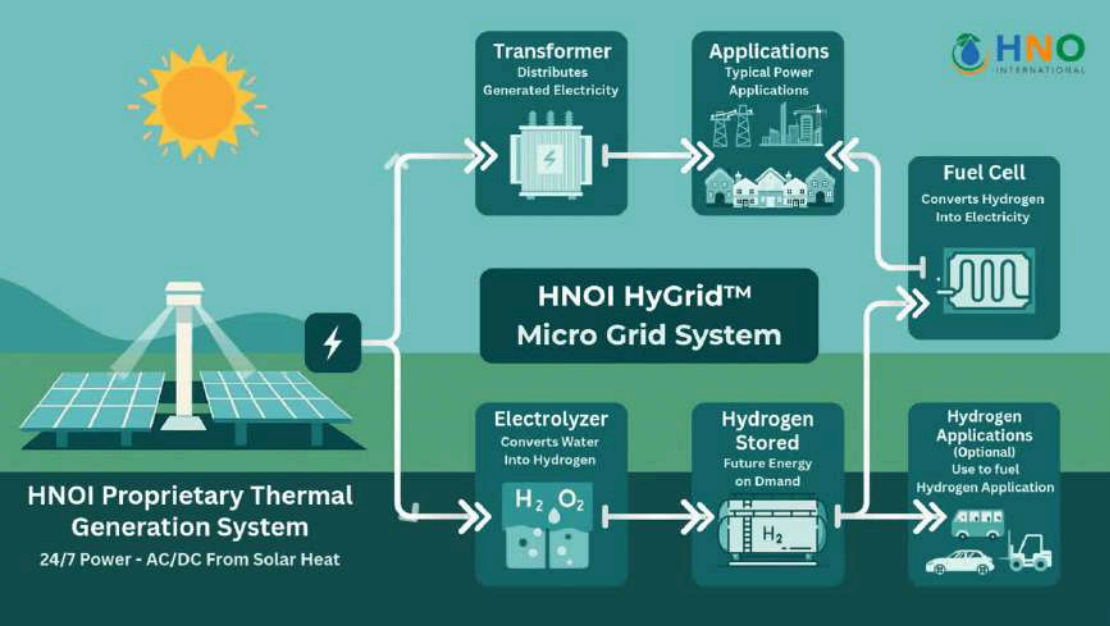
Hydrogen Storage Tanks

Safe, scalable storage for short- and long-term use



Battery Storage (Optional)

For hybrid power setups and enhanced energy resilience.



Core Value Propositions



OFF-GRID, SUSTAINABLE POWER

Reliable, clean energy—no diesel, no grid dependency. Powered by green hydrogen with zero carbon emissions.

SMART & SCALABLE INFRASTRUCTURE

From 10kW micro-units to megawatt-scale setups, with smart remote monitoring, real-time analytics, and cloud integration.



CUSTOMIZE YOUR SOLUTION

We will tailor the HyGrid™ hydrogen microgrid to fit your requirements.

DEPLOY AND OPERATE

Receive your HyGrid™ & Start generating clean, reliable power with your HyGrid™ — anywhere & everywhere power.



Global Applications of HyGrid™



1 Off-Grid & Remote Communities

Empower rural villages, islands, and developing regions with 24/7 sustainable energy—no grid needed.



2 Industrial & Manufacturing Facilities

Cut emissions and operating costs with clean, on-site power that meets heavy-load demands.



3 Data Centers & Edge Infrastructure

Ensure uninterrupted uptime with scalable, clean backup energy—ideal for ESG compliance



4 Military & Emergency Operations

Deploy energy anywhere with mobile, resilient units ready for conflict zones or disaster response.



5 Hospitals & Critical Infrastructure

Deliver life-saving power continuity in grid outages with intelligent hybrid backup.



6 Smart Cities & Commercial Buildings

Support net-zero targets and power modernization with intelligent, grid-connected microgrids.



7 Energy-Intensive Agriculture & Greenhouses

Enable self-reliant farming operations with reliable, off-grid power for irrigation, lighting, and storage.

Our Company

Who We Are

HNO International is a green hydrogen product development company. Our mission is to provide cost-effective, modular, scalable systems that produce, store, and dispense green hydrogen on a regional, local scale.

Highlights:

- 15+ years in hydrogen R&D exp.
- 19 US patents
- Strong partnerships in industry



Donald Owens

Chairman/President/CEO

Don, our visionary and leader for 15+ years, combines engineering, patent law, and entrepreneurship, driving our hydrogen technology success.



Jasmine Liou

Executive Vice President

Jasmine leverages decades of expertise in education, strategy, and communications to drive hydrogen innovation.



Greg Heller

CTO

Greg brings strategic insight to our business development, collaborating with engineers to innovate and optimize our hydrogen systems.



Contact Us



Brian Hill

VP of Sales and Partnerships

info@hnointl.com

www.hnointernational.com