

HyGridTM - Microgrid

Anywhere & Everywhere Power™

The Smarter, Stronger Alternative to Traditional Solar







The Problem with Traditional Solar

Consumes excessive land area



Utility-scale solar farms demand acres of open space, raising concerns about efficiency and smarter land use.

Fragile panels – easily damaged by storms/hail



Solar panels are vulnerable to hail, heavy winds, and debris, often requiring costly replacements and insurance claims after severe weather events.

Intermittent – no night power without batteries



Solar PV only produces electricity when the sun shines, forcing reliance on expensive storage or backup generators at night and during cloudy days.

Expensive lithium battery storage



To provide 24/7 power, large lithium battery banks are required, which are costly, have limited lifespans, and pose environmental and fire risks.

High Installation & Maintenance Complexity



Solar farms require large-scale wiring, panel cleaning, and inverter replacements, driving up long-term maintenance costs and downtime.

HyGridTM Microgrid Compact, Resilient, and Continuous





Runs 24/7, Even for Weeks (Without Sun)

Stores heat for continuous operation, ensuring steady electricity supply day and night without costly battery reliance and even if no sun for weeks.



Generates Electricity from Stored Heat

Harnesses concentrated thermal energy instead of fragile PV panels, enabling efficient and reliable power generation.



Smaller Land Footprint

HyGrid™ requires 98% less land than traditional solar PV systems for the same power output, making it ideal where space is limited.



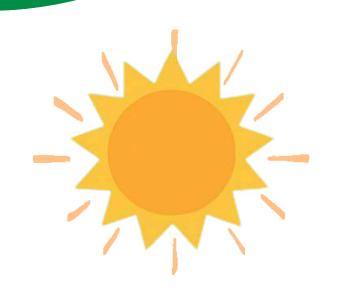
Optional Hydrogen Fuel Cell Backup

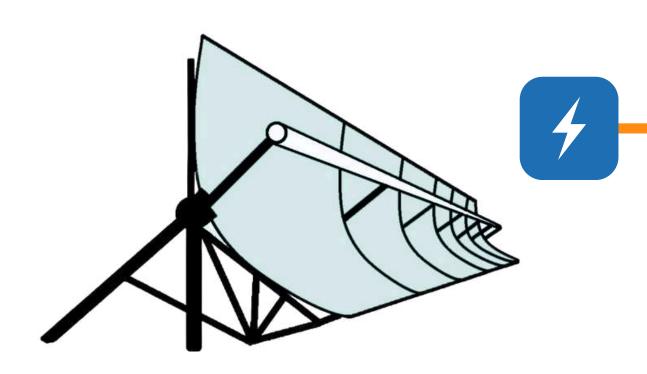
Allows integration of hydrogen storage and fuel cells to provide extended backup power for critical operations.



Rugged, Durable, Weather-Resistant

Engineered to withstand storms, debris, and harsh climates, ensuring long-term durability with minimal maintenance.



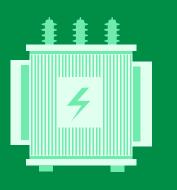


HyGrid Microgrid System Anywhere & Everywhere Power™

24/7 Power - AC/DC From Solar Heat

Transformer

Distributes Generated Electricity



Applications

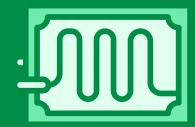
Typical Power Applications





Fuel Cell

Converts Hydrogen Into Electricity



Optional

HNOI HyGrid™ Microgrid How it Works

Electrolyzer

Converts Water Into Hydrogen



Optional

Hydrogen Stored

Future Energy on Dmand



Optional

Hydrogen
Applications
(Optional)
Use to fuel
Hydrogen Application



Optional

Traditional Solar



HyGrid™ Microgrid

Only with costly batteries	24/7 Power	Continuous via Stored Heat
Consumes excessive open space	Land Requirement	98% smaller space requirement
Fragile panels, storm damage	Weather Resistance	Rugged concentrator, resilient
Large, complex, time-intensive	Installation	Compact, modular, scalable
Frequent, labor-intensive	Maintenance	Minimal, low-cost upkeep
Expensive Lithium batteries	Backup Need	Optional Hydrogen Fuel Cell

Off-Grid & Remote Communities

Power villages, islands, and regions with 24/7 off-grid energy.



Industrial & **Manufacturing Facilities**

Lower emissions and operating costs with clean on-site power.



Military & Emergency **Operations**

Deploy mobile, resilient energy for conflict zones or disasters.



Hospitals & Critical Infrastructure

Reliable, life-saving backup power for critical needs during grid outages.

Global Applications of HNOI HyGridTM Microgrid

Tribal Business 03 **Enterprises**

Reliable, sustainable energy for casinos, hotels, and resorts.



Data Centers & Edge Infrastructure

> Uninterrupted, scalable clean backup for ESG goals.





Smart Cities & 07 **Commercial Buildings**

Support net-zero goals and modernization with intelligent microgrids.



Energy-Intensive Agriculture & Greenhouses

Self-reliant, sustainable farming powered by reliable off-grid energy.

About HNO International, Inc

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.



15+ years in hydrogen R&D exp.



19 US Patents



Strong partnerships in industry



Donald OwensChairman/President/CEO

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



Jasmine Lious
Executive Vice President

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



Greg Heller
Chief Technology Officer

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



Thank You

For Your Attention



