



AZOTERA

Distributed Ammonia Systems for
Multi-Week Grid Resilience and
Local Fertilizer Production



AZOTERA

DC
RECTIFIER
1000 VDC

OFFLOAD
CONNECTION
KEEP AREA CLEAR

Two Critical Energy Problems, One Ammonia Solution:

Azotera builds distributed energy systems that deliver weeks of backup power while producing low-cost fertilizer

One System. Two Markets. Zero Emissions.

Making green fertilizer and zero-carbon grid resilience affordable



For Utilities

Resilience & Compliance
7-day backup per tank
Firm Capacity



For Ag Markets

Reliable local supply
25+% commodity price savings
50+% transport cost savings



For Investors

45%-75% Gross Margins
Large follow-on markets

Operators Install One System and Get Paid Twice



Revenue Stream 1: Electric Grid Resilience

\$450,000/yr

from 3-storage cycles
(600hr of 2.5 MW)
100 \$/MWh CETA Compliance
200 \$/MWh arbitrage spread



Revenue Stream 2: Sustainable Fertilizer

\$1,050,000/yr

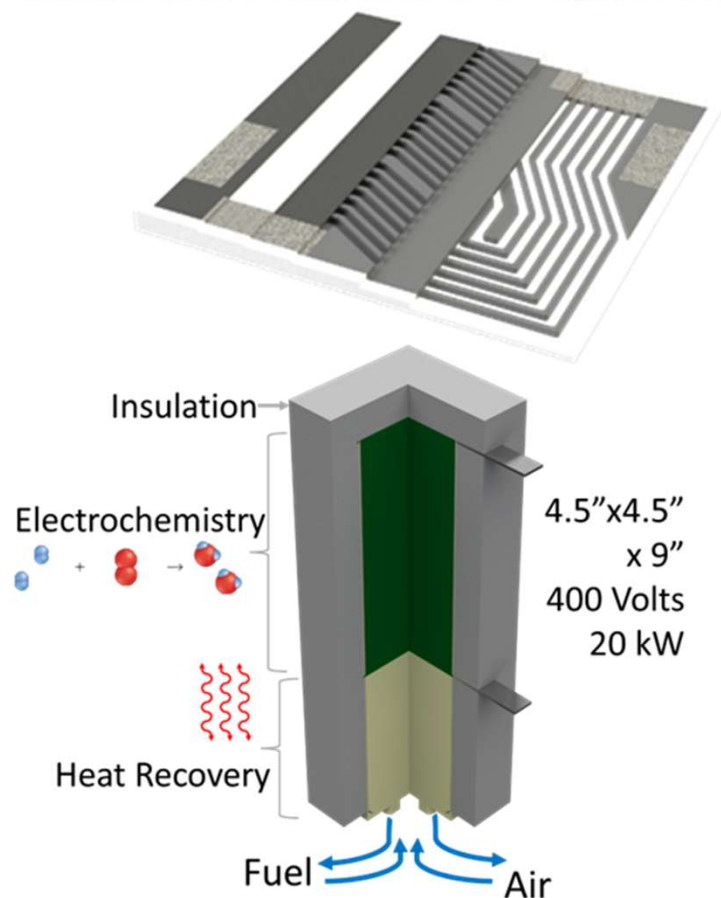
from ammonia offtake
(2500 t/yr @ \$420 net)
600 \$/t wholesale + \$120 \$/t credits
- \$300 \$/t cost

\$1.5M/yr combined gross profit
6yr payback, 2.5yr with grants or ITC

Azotera's Core Technology

Efficient Haber-Bosch Ammonia Synthesis Shrunk to a Container

Reactor Miniaturization ~ 2,000 layers



Electric Power → NH₃ Synthesis → Storage →
Storage → Reversible Electric Power



70% Conversion Efficiency

Integrated electrochemistry & thermochemistry (vs NG SMR 43% eff)



Reversible Operation

On-demand distributed power (50% round-trip)



No Hydrogen Compression

Simple, compact, modular design for rapid duty cycle deployment



Patented Technology

Pressure-tolerant electrode (US 11,594,738 B2)

Multiple Industrial Use Cases



Grid-resilience and on-site fertilizer production



Zero-emission on-demand power and Diesel fuel replacement

Staged Investment Strategy

5 years

Lab bench → 50
units/yr

~\$3.0M

Investment to reach
demo

~\$14.7M

Factory CAPEX→ 50
units/yr

~\$12.0M+

USDA Loans

Q4 2028

Groundbreaking — in-
field demos

133 FTE

Workforce at 50+
units/yr

Stage	Timeline	Investment	Outcomes
1	Q3-2026	\$600k	Complete DPP-AM printer Independent Review Additional IP filings Sales LOI's
2	Q1-2027	\$2.4M	Benchtop MVP Prototype BoP Engineering Designs Pilot Manufacturing Designs Pilot Installation Grant Applications
3	Q1-2028	\$15M	Prototype Assembly, Installation & Commissioning Pilot Manufacturing Buildout Reversible System Testing

Proven Expertise



Dr. Dustin McLarty
Chief Technology Officer

- 18 yrs Solid-Oxide Tech • 25+ papers
- 1000+ citations • \$4M+ grants
- Tenured Professor • Fulbright Fellow
- Former US National Team and Pro Triathlete



Christopher E. Wood
Chief Executive Officer

- 30+ yrs operator/investor
- Lean/TPS expert
- 30+ yrs key roll in startup ramps
- Wheat Farm with 1000t NH₃/yr

Join Us in Scaling Green Ammonia for Ag and Grid Resiliency

40x

Energy Storage
Duration

\$10M

vs. \$20M for
batteries

20 years

Asset lifespan

Zero

Carbon emissions

Contact Us

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