

Low-cost electrolyzer stacks for H₂ production

CONFIDENTIAL Prepared for CERA Week 3/7/23



COMPANY OVERVIEW

The world needs green H_2 to reach its climate goals. Electrolyzer stack supply is the bottleneck.





Leadership Team



Dr. Jimmy Rojas Founder & CEO MIT; Stanford; VC experience; invented IP for Accion Syst (>\$85m raise).



Scott Blanchet COO Stanford; >25yrs fuel cell industry; ex-CTO Nuvera Fuel Cells; >265 patents.



Dr. Art Shirley CCO Princeton U.; >30yrs H₂ industry; ex-VP of H₂ Air Liquide; Linde.



Tim DiNicola Head of Finance >20yrs in Finance/M&A in Defense, Life Science and Fuel Cells



Bryan Bestvater Head of Manufacturing >30yrs manufacturing executive at Siemens, Plug Power and Nuvera.



Kristin Brief BE Fellow, Corp. Dev. 20yrs Corp. Development executive and experienced entrepreneur

Breakthrough Energy		Air Liquide			Breakthrough Energy
Massachusetts Institute of Technology	fuelcellenergy	Linde	BAE SYSTEMS	SIEMENS	⊡Ambri
Stanford University	gm	bp	LOCKHEED MARTIN		ENERNOC
Tech development		Project development	FP&A	Manufacturing	Entrepreneurship
Fundraising	Operations	Business development	Accounting	Tech development	Business development
Entrepreneurship					



TEAM **Advisory Board**



Tom Baruch Renowned investor: 18 IPOs. 10 "unicorns", 10 M&A; BEV; Exxon Mobil.



Dr. Arun Majumdar Founding director ARPA-E; Breakthrough Energy Ventures: Stanford Dean.



Allan MacKenzie Chairman at NextHydrogen; Private equity investor



Dr. Naomi Boness Stanford; ex-Chevron; Stanford Hydrogen Initiative.

Chevron



Massachusetts

Institute of Technology

Rensselaer

Tech: Polymers

Dr. Gary Wnek Prof. Polymer Chemistry



Dr. Ian McKay Gates Ventures; Form Energy; Serial entrepreneur



Tech: Catalysis

... and other technical advisors.











U.S. DEPARTMENT OF







Stanford

University



Ambient Fuels









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Electrolyzer supply cannot meet demand



IEA, Energy Technology Perspectives 2023 Bloomberg NEF

• Real-time tracking of H₂ projects shows rapidly growing demand/supply difference.

o "We're seeing 2–3-year lead times for stacks"

 "You can't get stacks [...] lead times are 4-5 years"

- Large EPCs



Existing technology will not scale

PEM Electrolyzers

Expensive, Limited, Insecure



Alkaline Electrolyzers

Complex, Heavy, Inflexible







The most comprehensive solution in the industry

10x

lower cost compared to competitors' <u>future</u> projections.

50%

higher performance thanks to cell design breakthrough.

>50x

lighter than state-of-the-art multi-MW stacks



manufacturing plants.

100%

Domestic supply chains



Lowest-cost stack in the industry as found by third-party cost assessment



PEM and AWE stacks sell today for \$800-900/kW, and \$400-500/kW, respectively. Only abundant, non-toxic materials.

- New stack; new electrodes.
- Pure-water AEM technology.
- New manufacturing processes.

Full report in the data room. No Warranty reserve, no markup. CONFIDENTIAL / CERA Week 2023



Novel Chemistry. Novel Design.





Large EPC & EvolOH begin design of **3.75GW/yr.** stack factory







Allowing the system integrator to reduce costs





BUSINESS MODEL

Maximizing return on capital employed with a unique position in the industry's value chain





²⁰²³ Current support & next steps



SERIES A

- \$20m, 18 months
- Closing in Summer 2023





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