

H2 Pump™

H2 Pump LLC

3-in-1 Hydrogen Solutions

*Pumping, Purification and
Pressurization*

November 2007

H2 PUMP Team

Dr. Glenn Eisman, Ph.D., Managing Partner

- 25 years of experience in electrochemistry, ceramics and polymer materials science, including 15 years at Dow Chemical, 6 years as CTO of Plug Power and 3 years as a Professor and Director of the Fuel Cell Center at Rensselaer Polytechnic Institute.

David Neumann, CPA, Managing Partner

- 20 years of experience in finance, accounting, treasury and tax, including 9 years at Plug Power (most recently as the CFO).

Dr. Brian C. Benicewicz, Ph.D., Managing Partner

- 25 years of experience in polymer science including extensive experience with high-temperature fuel cell membranes and has spent 9 years as the Director of the Center for Polymer Synthesis and Professor in Department of Chemistry at Rensselaer Polytechnic Institute.

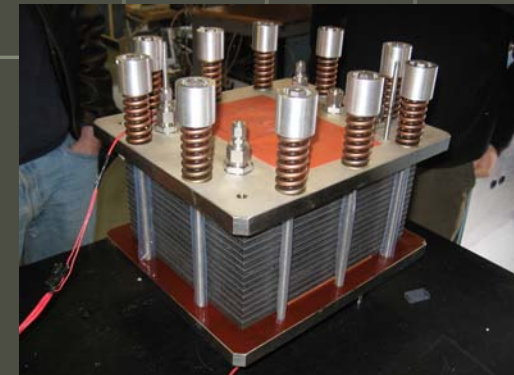
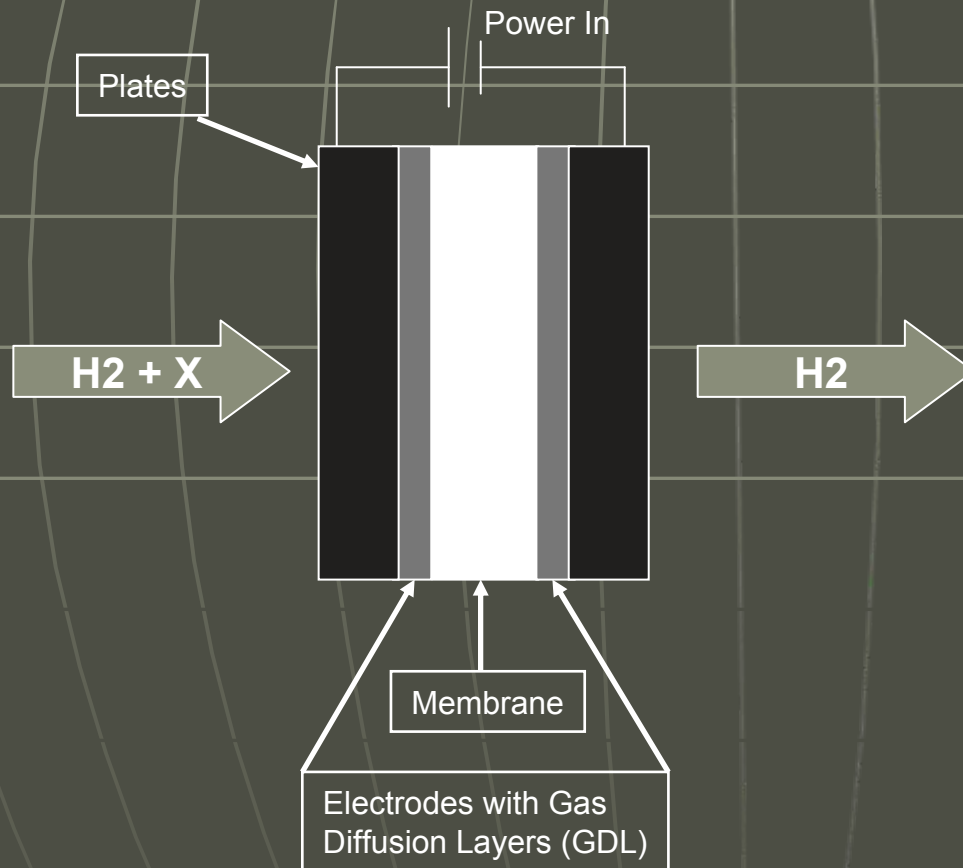
Ana-Maria Galeano, J.D., Managing Partner

- 15 years of experience in corporate law, securities, contracts, strategic alliances and intellectual property, including 6 years as the General Counsel at Plug Power.

**Engineers (1 full-time, 2 part-time)
Technician (1 full-time)**

Our Technology

Pump, Purify and Pressurize hydrogen in a single device



Purification from a Coal Reformate

	Input	Output
H ₂	50.5 % / 0.305 slm	99.896 % / 0.254 slm
CO	4.4 %	6.5 ppm
CO ₂	39 %	1010 ppm
CH ₄	6.1 %	18.7 ppm

H2 Pump will be a leader within our core business of developing advanced technology, and products, for customer applications within hydrogen-based industries while creating value for all stakeholders and shareholders.



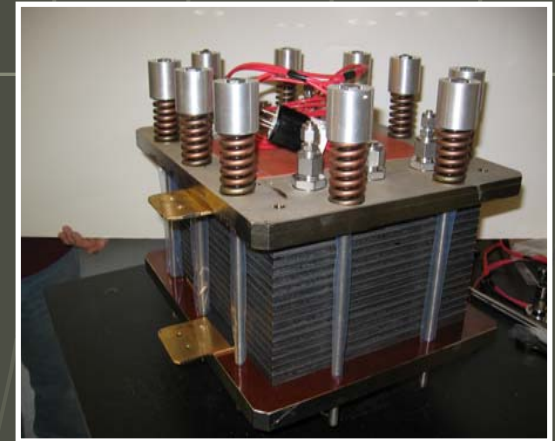
**H2 Pump
Facilities**



Recirculation Prototype



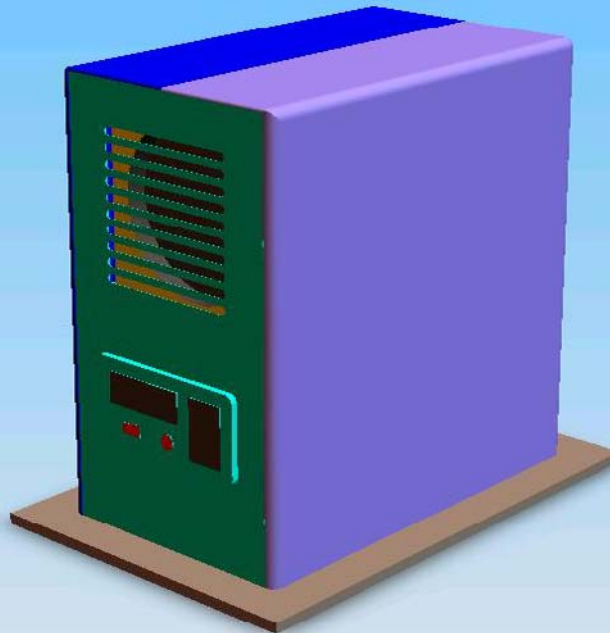
> 10,000 hrs. test data



Customer Prototypes

System Design and Concept

Currently designing and building
a system with 20-40-kg/day
capability



H2 Pump™

Thank you!