

# CAVENDISH ENERGY

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## **NEWS RELEASE**

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### **Technical Services Agreement Signed to Create and Test a Device to Generate Electricity from Aluminum**

Historic technological breakthrough allows affordable,  
sustainable, modular generation of hydrogen for use in fuel cells.

**Chicago, Illinois:** Cavendish Energy and the Gas Technology Institute (GTI) have executed a technical services agreement to fabricate and test a device to produce hydrogen from aluminum and use the hydrogen to generate electric power. This effort will provide the complete engineering package of a 200 standard liters per minute (SLPM) prototype device capable of being controlled in an automated or semi-automated manner. The results will facilitate commercial manufacturing of the Cavendish device by a third party, and will be suitable for prototyping and modification for specific applications.

The Cavendish technology can provide affordable, sustainable hydrogen for a wide variety of civilian and military uses. Cavendish will transform the current landscape of energy and other markets requiring affordable, abundant, renewable hydrogen and will greatly expand hydrogen markets.

- Cavendish co-founder Dr. Roger Bezdek stated, “People have tried for 100 years to use aluminum to produce hydrogen. Cavendish has succeeded and the implications are truly revolutionary.”
- GTI R&D Director Tony Lindsay stated, “The system will be capable of producing hydrogen at a rate of 200 SLPM, and GTI is assessing the associated hazards, developing safeguards, and demonstrating the technology’s ability to produce hydrogen suitable for use in a stationary fuel cell system. The technology will be tested for its ability to make on-site hydrogen in a manner that could benefit many current markets.”

Cavendish Energy produces hydrogen on demand from aluminum in a first-of-its-kind, cost-effective manner. Cavendish has applied the fundamental thermodynamics, chemistry, chemical kinetics, and solution chemistry in a novel way, resulting in impressive empirical results with implications for application at many scales. The Cavendish technology and IP have been reviewed and verified by several of its industrial partners, with patents and trademarks both issued and pending. Cavendish’s market

analyses validate potential in horticulture, the power generation industry, telecom back-up power, tabletop hydrogen production for analytical chemistry, hydrogen fueling stations, hydrogen-powered fork lifts, combined heat and power systems, and other near term civilian and defense applications.

### **About Cavendish Energy LLC**

Cavendish Energy LLC is focused on commercializing the production, distribution, and sale of gaseous hydrogen. Through its proprietary innovations, Cavendish provides a platform for commercially robust hydrogen production and storage. It has been developing the technology for four years at its lab at the Illinois Institute of Technology in Chicago and at GTI. Cavendish has its headquarters in Ft. Worth, Texas, and its government relations office in Washington, D.C. For more information visit [www.cavendish-e.com](http://www.cavendish-e.com).

### **About the Gas Technology Institute (GTI)**

GTI is a leading research, development, and training organization addressing global energy and environmental challenges by developing technology-based solutions for consumers, industry, and government for more than 75 years. For more information visit [www.gastechnology.org](http://www.gastechnology.org).