GreenWayEnergy®
POWERFUL EXPERTS

Capability statement

Greenway Energy (GWE) designs and builds TCAP isotope separation systems, develops electrochemical water detritiation, and produces alane, a solid hydrogen fuel for fuel cells.

CORE COMPETENCIES

- GWE TCAP Systems: custom hydrogen isotope separation systems, designed, built and supported under license.
- GWE Water Detritiation: A patent-pending electrochemical approach to recovering tritium from water.
- GWE Alane: aluminum hydride, produced for commercial and government uses.
- Engineering services: hydrogen and electrochemical system design, metal hydride systems, techno-economic analysis and process modeling.
- Custom Sieverts-type gas sorption (PCT) measurement units and an air-sensitive synthesis laboratory.

DIFFERENTIATORS

- Proven technology: TCAP has run in production tritium operations at the Savannah River Site since 1994, and GWE holds a license to design and build TCAP systems for others.
- Built for the fusion fuel cycle: GWE works on two of the hardest steps in a fusion plant's tritium system, isotope separation and water detritiation.
- Experts who publish: peer-reviewed work in Fusion Science and Technology and the International Journal of Hydrogen Energy, co-authored by GWE President Scott Greenway.

PAST PERFORMANCE

Project	Sponsor	Contract no.	Period
Membranes for photoelectrochemical hydrogen production	U.S. Department of Energy, SBIR Phase I	DE-SC0022407	Feb 2022 to Feb 2023
Hydrogen storage for fossil-integrated energy storage	U.S. Department of Energy, SBIR Phase I	DE-SC0022408	Feb 2022 to Feb 2023
Alane production	Savannah River National Laboratory	—	—
Metal hydride materials development	U.S. Department of Energy, SBIR Phase I	DE-SC0017106	Feb 2017 to Nov 2017

COMPANY CODES

Legal name	Greenway Energy, LLC
UEI	MS5LA834PBP5
CAGE code	4N6F2
Primary NAICS	541715
Other NAICS	541611, 541690
SAM.gov status	Active
Size and designations	Small business

CONTACT

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Last updated November 4, 2026

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