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NIACS Codes

- 213112
- 325998
- 334519
- 541690
- 541715
- 541990

Performance Highlights

- Sustainable Energy



- Innovation Leader



- Technology Partnerships



- Community Impact



Past Clients

We are proud to have served:

- AmeriCorps
- Carnival Corporation
- Halifax Regional Government
- HCA Healthcare
- Solis Power
- Tenant Health
- University of Miami

CAPABILITY STATEMENT

SUPERCritical CATALYTIC CONVERTER

Transform Waste - Produce Energy - Create Solutions

High Alert Institute, Inc. is a 501(c)(3) non-profit dedicated to advancing sustainable, disaster-resilient, and energy-efficient solutions. With over 23 years of expertise in disaster preparedness, renewable energy, and community resilience, we innovate with purpose to address critical environmental and energy challenges.

The Supercritical Catalytic Converter (SCC) is our latest breakthrough, developed in partnership with Solis Power, LLC. Together we are poised to revolutionize waste-to-energy conversion by delivering efficiency, sustainability, and scalability unmatched in the industry.

Core Technology and Innovation

Our **Supercritical Catalytic Converter (SCC)** is the next-generation solution to the world's growing energy needs.

- **Cutting-Edge Technologies Combined**
Supercritical Water Oxidation (SCWO) + Supercritical Carbon Dioxide (SCCO₂)
- **Regenerative Brayton Cycle Integration**
Elevates energy efficiency beyond conventional waste-to-energy technologies
- **Effectively Doubles Production**
Electricity, clean water, raw minerals, and industrial-grade thermal energy
- **Sustainable, Closed-Loop System**
Net power-producing in any climate
- **Resilient, Scalable Design**
Municipal, industrial, defense, and community applications
- **Zero-Emission Waste Conversion**
No greenhouse gas emissions, toxic byproducts, or dependency on landfills

Competitive Advantage and Differentiators

What sets High Alert Institute apart:

- **Patent and IP Portfolio**
Multiple patents plus technology transfers from U.S. Department of Energy (DOE) National Research Laboratories
- **Carbon-Neutral Impact**
Developed North America's most sustainable renovated facility utilizing COTS technologies
- **Proven Microgrid System Design**
Reliability in extreme weather (100°F+ heat waves, hurricanes, tornadoes)
- **Disaster Planning Expertise**
Knowledge and experience to address needs for hazard mitigation, emergency operations, and extreme environments

Federal Funding Alignment

- **Department of Energy (DOE)**
Renewable energy, grid modernization, advanced technologies
- **National Nuclear Security Administration (NNSA)**
Secure energy management strategies
- **SBIR/STTR Grants**
Clean energy technology, carbon-reduction programs
- **EPA and FEMA**
Sustainable waste management, disaster resilience projects

Venture Capital Opportunities

- **\$17 Trillion Total Available Market**
Infrastructure and clean energy investments, aligned with carbon capture and waste-to-energy demand
- **ESG-Driven Investment**
Address key environmental, social, and governance goals with scalable, high-impact solutions

Call to Action

We invite venture capitalists and energy sector stakeholders to partner with us, as we shape the sustainable future of energy and waste management. Opportunities include:

- **Scaling** the SCC
Bring our 1st in class waste-to-energy solution to market
- **Launching** large-scale demonstrators
Showcase the SCC in critical industries and federal initiatives
- **Expanding** research and patents
Drive technology development with new partnerships and intellectual property opportunities

Contact Us

Together, we will redefine sustainability.

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