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NIACS Codes

- 221115
- 334519
- 541330
- 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

AEOLIAN WIND TECHNOLOGIES

Quite Operation – Produce Energy – Reduce Wear

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.

Aeolian Wind Technologies (AWT) mitigate vibration and resonance to reduce wind turbine noise, cut maintenance costs, and increase energy production. AWT leverages cutting-edge materials and technologies from the manufacturing, space, and music industries.

Core Technology and Innovation

Our **Aeolian Wind Technologies (AWT)** are the innovative solutions that help meet the ever growing global demand for clean energy.

- **Cutting-Edge Technologies Combined**

Acoustic Energy Conversion Panels +
Resonance Blocking Mounts +
Sound Dampening Fibers +
Vibration Absorbing Sheets

- **Low System Cost – No Operation Cost**

Passive vibration and noise mitigation without energy use or interference

- **Effectively Increases Production**

Less vibrational wear means less maintenance downtime

- **Sound Imaging Guided Design**

Image mapping of vibration and resonance optimizes mitigation

- **Resilient, Scalable Design**

Technologies applicable to most wind turbine tower sizes and locations

- **Improved Occupational Safety**

Reduced noise exposure =
improved maintenance worker safety

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
- **Department of Interior and OSHA**
Protection of wind turbine workforce and wildlife surrounding wind farms

Venture Capital Opportunities

- **\$17 Billion Total Available Market**
Wind energy investments, aligned with wind turbine system maintenance and global 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 wind energy.

Opportunities include:

- **Scaling AWT**
Bring our noise and vibration mitigation solutions to market
- **Launching** large-scale application
Retrofit existing wind farms or enhance new installations with AWT solutions
- **Expanding** integration into design
Drive technology adoption with new partnerships and intellectual property licensing opportunities

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

Contact Us

Together, we will redefine sustainability.

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