

Telecom Key Benefits

- 3-4X higher life over Lead-acid or VRLA Batteries
- All Zinc-Air cells have built-in 24/7 remote monitoring, integrated intelligent power management and data capture & analytics, allowing commercial customers to cost-effectively operate, maintain and manage energy assets
- Reduced O&M cost and increased reliability by eliminating or minimizing the use of diesel Gensets and maintenance activities
- There are no toxic materials, are not flammable nor are susceptible to thermal run away and can be disposed safely
- Systems are "Green" and sizeable from 0.5KW to 200KW
- Wide range of temperature operation (32°F - 122°F) with no deterioration effect (No climate control required) Gen8
- Increased network uptime due to higher reliability and remote monitoring, diagnostics and preventative maintenance
- Seamless upgrade and reduced costs as new batteries can be added any time to increase power/energy output

About Deployment

+120,000 Cells Produced to Date

+3,000 Systems Installed Globally

+50MWh Installed & Growing

+50,000 Metric Tons of CO2 Reduction

+1,200,000 Commercial Cycles

6+ Years of Commercial Use

Awards

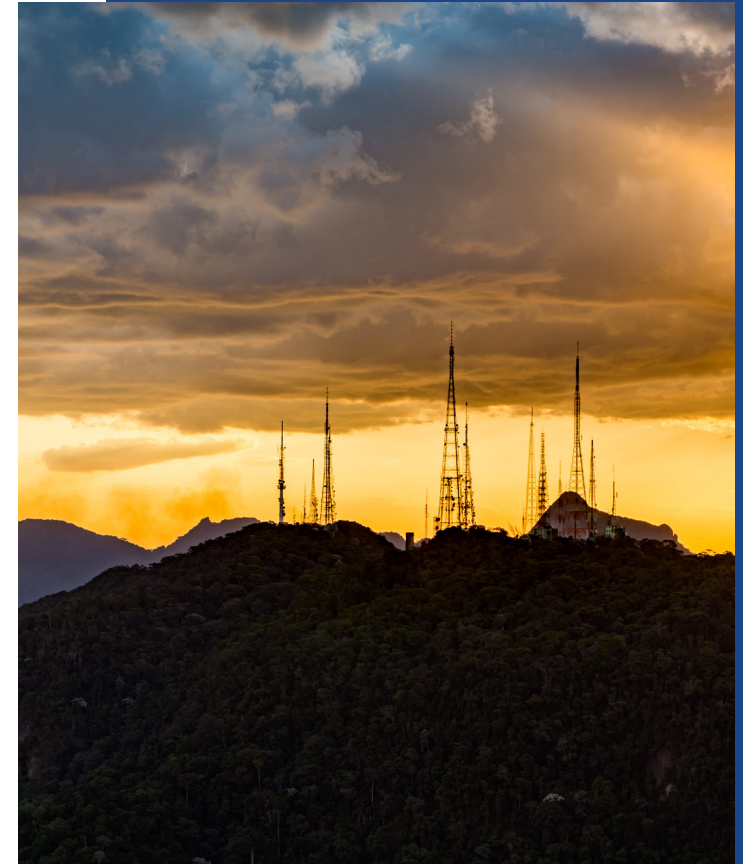
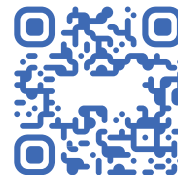


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CELEBRATING INNOVATION & TECHNOLOGY LEADERSHIP



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Progress in Power

About NantEnergy

NantEnergy designs, manufactures, and markets innovative and intelligent energy storage solutions that are accelerating the worldwide transition to sustainable and reliable energy. In keeping with our mission to provide clean energy solutions that benefit people, business, and the planet, our proprietary zinc-based rechargeable batteries cost less and function longer than the lead-acid batteries and diesel generators they replace, with far less impact on the environment.

Coupled with our advanced energy management software, NantEnergy's vertically-integrated systems serve as the core of distributed commercial and industrial energy management systems, remote microgrids, and reliable backup power to critical wireless infrastructure.

NantEnergy systems are available in an EaaS (Energy-as-a-Service) model for customers that want to shift their energy spending from a CapEx to an OpEx; this represents the future of storage for every use, in every part of the world.

The company was founded in 2006 as FluidicEnergy and is based in Phoenix, Arizona and Los Angeles.



Battery Specifications



Anti-Theft

Battery cells won't function once removed from the system and they contain no valuable raw materials and can't be repurposed in any way.



Scalable Modular Systems

The modular architecture makes it possible to increase battery capacity over time with seamless integration of both new and old cells. It's simple, adjustable and provides the ultimate, flexible solution for applications that will anticipate load growth.



24/7 Integrated Remote Monitoring

Cellular (3G/4G), Wi-Fi, and satellite-enabled data collection, allowing operators to remotely manage and operate the systems from a central command or Network Operating Center. This improves system reliability, reduces operations and maintenance costs, and significantly improves overall power availability.



Smart Battery

The only battery with programmable integrated intelligence at the cell level. Performance can be optimized remotely.



Safety

Battery electrolyte and electrodes are non-flammable. No lithium-type thermal runaway events. No lead-acid chemical gassing events.



Environmentally Friendly

Electrolyte is non-toxic and all battery components are fully recyclable. No lead content, toxic or diesel pollutants.



Eliminate Diesel Gensets

NantEnergy storage systems are capable of storing large amounts of energy and discharging nonstop for 8, 12, or over 24 hours, eliminating the reliance on diesel gensets and fossil fuel.



No Depth of Discharge Limitations

System performance and life are not impacted by depth-of-discharge or state-of-charge requirements.



Operates in all Environments

System operates outdoors in ambient temperatures from -40°F/-20°C to 122°F/50°C without the need for auxiliary cabinet cooling.



10 Year+ Design Life

The NantEnergy storage system with its simple design and replacement cells delivers more than 10 years of system life.



Earth Abundant Materials

Battery electrodes use zinc and nickel, two of the most abundant chemical elements.



Hybrid Capability

NantEnergy hybrid energy storage systems provide best-in-class performance and cost by seamlessly hybridizing zinc-air and Lithium-ion.



Low Cost

Zinc-air electrode raw material costs are 17 times lower than those used in Li-ion electrodes and zinc-air manufacturing costs are 20 times lower than Li-ion for the same manufacturing capacity (GWh).