

Sionic Energy Awarded \$200,000 SuperBoost Grant to Advance High-Energy, Fast-Charging Batteries

NSF Upstate New York Energy Storage Engine funding to accelerate commercialization of next-generation mobility and energy storage solutions

ROCHESTER, NY, UNITED STATES, April 3, 2025 /EINPresswire.com/ -- Sionic Energy, a leader in electrolyte and silicon battery technology, has been awarded a \$200,000 SuperBoost grant from the NSF Engines: Upstate New York Energy Storage Engine. The funding will accelerate the development and commercialization of Sionic's 100% silicon lithium-ion battery platform, which delivers industry-leading energy density, ultra-fast charging, and seamless compatibility with existing battery manufacturing infrastructure. The technology is poised to transform key markets, including electric vehicles, aviation and consumer electronics.



As demand for high-performance, sustainable battery solutions continues to grow, Sionic's technology offers a game-changing advantage — boosting energy density by up to 42% over conventional lithium-ion batteries while cutting charge times to as little as 10 minutes. By leveraging a proprietary silicon anode and advanced electrolyte system, the platform enhances battery efficiency without requiring costly manufacturing overhauls, ensuring a scalable, cost-effective path to commercialization.

“Next-generation lithium-ion batteries must not only store more energy but also charge faster and integrate easily into existing production lines,” said Ed Williams, CEO of Sionic Energy. “The support from the Upstate New York Energy Storage Engine allows us to accelerate the commercialization of our silicon battery technology, helping to power the future of sustainable mobility and energy storage solutions.”

The SuperBoost program, a core initiative of the Upstate New York Energy Storage Engine, is designed to expedite commercialization timelines, reducing development cycles from five or more years to under two years. By providing targeted funding and connecting startups with regional testbeds, manufacturing hubs and industry partnerships, the program is advancing U.S.-based energy storage innovation while bolstering economic growth in upstate New York.

Fernando Gómez-Baquero, director of the Translation Pillar at the Engine, highlighted the strategic importance of Sionic's advancements. "Sionic's work in silicon anode battery technology is a game-changer for lithium-ion energy storage," he said. "Their ability to deliver higher energy density while ensuring fast-charging capability aligns perfectly with the Engine's mission to foster breakthrough technologies that can transform the energy storage landscape. Through SuperBoost, we are helping companies like Sionic bridge the gap between innovation and commercialization, strengthening upstate New York's role as a leader in next-generation mobility solutions."

The Upstate New York Energy Storage Engine is creating a national energy storage ecosystem, leveraging its extensive network of testbeds, infrastructure and research collaborations to help startups accelerate their path to market.

Meera Sampath, CEO of the Engine, emphasized this broader impact. "The Engine is designed to provide early-stage energy storage companies with the critical resources they need to scale," she said. "Our region offers an unparalleled network of manufacturing capabilities and R&D infrastructure, making it an ideal location for accelerating battery innovations. Supporting Sionic through SuperBoost is another step toward strengthening domestic energy self-reliance, reinforcing national security, and positioning upstate New York as America's Battery Capital."

With this SuperBoost funding, Sionic Energy will validate and prototype its technology for automotive and mobility applications, ensuring compliance with industry standards and accelerating its entry into commercial markets. This investment aligns with national efforts to build a resilient, U.S.-based battery supply chain, advancing clean energy solutions and economic growth.

About Sionic Energy

Sionic Energy is a recognized leader in lithium-ion battery innovation, developing high-energy-density, fast-charging silicon anode technology for electric vehicles, mobility, and energy storage applications. The company partners with automotive, mobile device, and battery manufacturers to deliver next-generation solutions under a licensing model. Sionic's mission is to simplify the transition to silicon anodes, ensuring superior performance, efficiency, and safety in future lithium-ion batteries.

About the Upstate New York Energy Storage Engine

The Upstate New York Energy Storage Engine, led by Binghamton University, is a National Science Foundation-funded, place-based innovation program. The coalition of 40+ academic,

industry, nonprofit, state and community organizations includes Cornell University, Rochester Institute of Technology, Syracuse University, Launch-NY and NY-BEST as core partners. The Engine advances next-gen battery technology development and manufacturing to drive economic growth and bolster national security. Its vision is to transform upstate New York into America's Battery Capital.

Ed Williams

Sionic Energy

[email us here](#)

Visit us on social media:

[LinkedIn](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/799627161>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.