

What is a sionic energy battery?

Sionic Energy battery's performance relies on a patented silicon-carbon composite, named SCC55, developed by Group14 Technologies. The company claims their batteries deliver at least 330 watt-hours per kilogram (Wh/kg) and 842 watt-hours per liter (Wh/L), with a lifespan of up to 1,200 cycles. They are tested in 4Ah to 10Ah cell formats.

What is sionic energy's new EV battery?

Sionic Energy today announced a robust battery that replaces graphite entirely, with a 100 percent silicon anode--versus the roughly five to ten percent portion found in some Teslas and other electric vehicles (EVs). The battery's performance hinges on a patented silicon-carbon composite made by Washington-based Group14 Technologies.

What makes sionic energy unique?

Sionic Energy's innovations utilize pure low-cost micron silicon, integrated with advanced electrolyte designs for exceptional performance, cycle life and increased safety. Sionic Energy's battery design is agnostic to cathode materials, enabling the extensibility of performance across a variety of current and emerging cathode designs.

Will sionic energy be able to develop a complete lithium ion battery?

Partnering with leading automotive, mobile device, battery, and chemical manufacturing companies, on those products, Sionic Energy is well positioned in the market for rapid introduction of its complete lithium ion battery technology with expected volume production of the design by the end of 2022.

What is sionic's silicon battery platform?

“Designed for seamless integration into existing lithium-ion battery manufacturing processes, Sionic's Silicon Battery Platform maximizes silicon material performance with regard to energy density, extended cycle life, and rapid charge rates,” said the firm in a statement.

Who is sionic energy?

Sionic Energy is led by an executive team with over 50 years of cumulative experience in the battery industry: CEO Ed Williams; CSO Dr. Surya Moganty; and SVP of Electrolyte Joon Bae Lee. Start a conversation with Sionic Energy about our research and technology.



Sionix Energy batteries can serve as a lighter and cheaper replacement to the mobility lithium-ion battery market's 2170 batteries with a current energy density of 1050 Wh/L or 350 Wh/kg and a platform that extends performance beyond the early projections of solid-state designs. Our non-volatile, non-flammable electrolyte additives" Multi



Sionix Energy's safer, (non-volatile) electrolyte additives use a proprietary Multi-Functional Molecule (MFM) design methodology that enables specific critical electrochemical function enhancements to maximize the performance of base ???



Green Car Congress: Sionix Energy, formerly NOHMs, launches to commercialize next-generation silicon-anode Li-ion battery cells Read More Canary Media: Startup Sionix Energy promises next-gen battery benefits without the wait Read More



Sionic Energy has announced a new battery with a 100 percent silicon anode, replacing graphite entirely. Developed with Group14 Technologies' silicon-carbon composite, the battery promises up to



Sionic Energy (also known as NOHMs Technologies) is a company that manufactures electrolyte products. It offers electrolyte additives used in multi-functional molecule (MFM) design methodology that enables the electrochemical function to support the performance of electrolyte formulations. The company caters to commercial, industrial, aviation



Der US-Batterieentwickler Sionic Energy hat eine neue Batteriezelle vorgestellt, die erstmals vollständig auf einer Siliziumanode basiert. Dabei war das Material "SCC55" von "Group14 Technologies" zum Einsatz gekommen. Durch den Verzicht auf Graphit soll die Energiedichte sich um bis zu 42 Prozent steigern lassen.



Sionic Energy is an innovative, energy storage technology company with more than 10 years developing breakthrough products for the Li-ion battery markets. Come join a rare opportunity to be at the forefront growing a startup into a flourishing business. Our Current Openings.



Ed is the President & CEO of Sionic, leading the company's overall strategy, product commercialization, growth, and equity strategies. Joining the Company in 2020, he comes to Sionic with extensive leadership experience developing and implementing high growth strategies for Fortune 500 and entrepreneurial start-up technology companies in energy, advanced ???



Today, the company announced Sionic Energy uses Group14's SCC55(tm) advanced material to fully displace graphite for a 100% silicon battery designed to achieve a 42% energy density increase.





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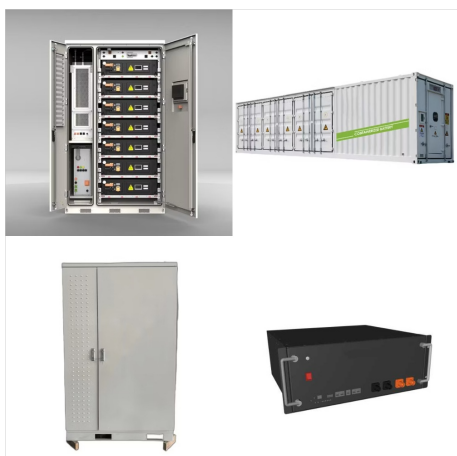
Sionic Energy General Information Description. Developer of electrolyte products designed to provide low-cost lithium-ion batteries. The company's batteries are made using a non-flammable liquid electrolyte to improve safety and overcome poor cycle life, performance, and manufacturing cost that are historical barriers to the use of ionic liquids, enabling clients to get improved ???



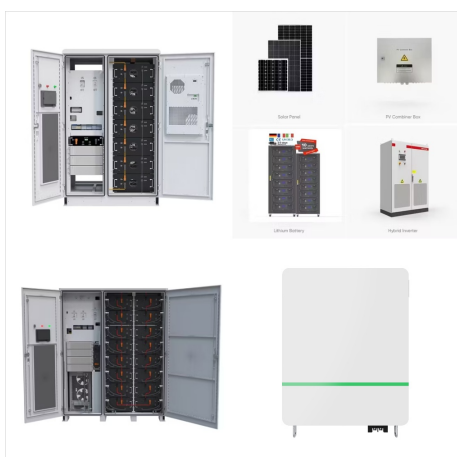
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Discover the variety of Sionix Energy and choose the right tools for your individual sound journey. All instruments. Be inspired. Browse through our huge assortment of beautiful, carefully crafted instruments. Also take a look at our interesting topics. Be inspired! Be mindful with yourself.



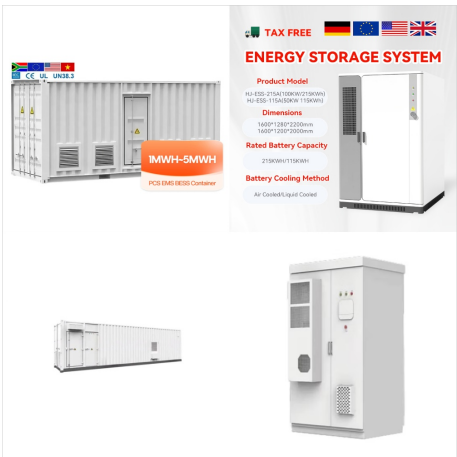
JoonBae is the Senior Vice President of Electrolyte Products for Sionix, where he leads the electrolyte product research and development. He joined the Company in 2018 following a distinguished career at Samsung SDI in Korea where, as Open Innovation Director, he led the company's EV Battery Development Division's project planning, research, and management ???



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As CTO of Sionic Energy, Karthik is responsible for leading the R& D organization to continue the development of breakthrough technologies, external collaborations and IP. He joined the company in 2023 and brings a hands-on, entrepreneurial leadership style with a proven track record of driving Innovation and Technology Development. A veteran of the battery industry ???



Sionic Energy came to Antenna Group for a website that would support its multi-year go-to-market strategy and ongoing discussions with potential automotive partners and investors. The project started with development of a new brand strategy and the launch of a bespoke landing page that was a temporary placeholder for a full website. For the



Sionic Energy General Information Description. Developer of electrolyte products designed to provide low-cost lithium-ion batteries. The company's batteries are made using a non-flammable liquid electrolyte to improve safety and ???



Sionic Energy is a manufacturer of lithium-ion batteries with a focus on providing chemistry and materials that guarantee durable, secure, and environmentally friendly lithium-ion batteries. The startup's batteries are made with a non-flammable liquid electrolyte to increase safety and get around ionic liquids' dwindling cycle life,



Sionic's 100% silicon batteries, powered by Group14's SCC55???, are designed to achieve specific energy performance of at least 330 Wh/kg and energy densities of at least 842 Wh/L, proven with a



Sionic's 100% silicon batteries, powered by Group14's SCC55tm, are designed to achieve specific energy performance of at least 330 Wh/kg and energy densities of at least 842 Wh/L, proven with a





Sionix Energy has unveiled a new battery cell based entirely on a silicon anode, thus allowing for an up to 42 percent higher energy density. Sionix Energy Unveils Battery with All-Silicon Anode - Battery-News