



## 200 million watt-hour solid-state battery company

A million-mile battery means a battery that will last for 1 million miles or more before it can't hold a charge strong enough to power an electric car anymore. Above, Tesla CEO Elon Musk. Above ...

Factorial Energy Raises \$200 Million To Accelerate Commercialization of its Novel Solid-state Batteries for Electric Vehicles January 20, 2022 at 06:00 am EST Share The round was led by Mercedes-Benz and Stellantis N.V. as part of the Joint Development Agreements with each company announced in November, 2021 Funding will help scale global ...

CATL aims to produce solid-state batteries in small quantities by 2027 for the first time. Meanwhile, a company representative describes large-scale production as "still challenging." This marks the first-ever timetable for ...

In August 2014, Sakti3 announced that it had produced a battery cell on fully scalable equipment with more than 1100 Watt hours per liter (Wh/l) in volumetric energy density. Although solid-state cells can address some of the issues attendant to using Lithium metal anodes -- especially safety and cycle performance -- such solid state cells have been difficult ...

Factorial Energy has raised \$200 million to accelerate commercial production of its solid-state battery technology that is safer and offers up to 50 percent greater ...

Market Outlook . The demand for battery power, as measured in gigawatt hours, is expected to grow from 185 in 2020 to 2,035 by 2030, a whopping 11-fold increase, with nearly 90% of that coming ...

(Reuters) - Start-up Factorial Energy has raised \$200 million to help fund further development and commercialization of its advanced solid-state battery for electric vehicles. ...

Solid-state batteries are not a new idea, and researchers at ORNL previously laid the foundations for their creation and use in the 1990s. They have been used in small formats to power pacemakers ...

Factorial Energy Raises \$200 Million To Accelerate Commercialization of its Novel Solid-state Batteries for Electric Vehicles . January 20, 2022 06:00 ET | Source: Factorial Energy. The round was ...

The federal National Blueprint for Lithium Batteries 2021 to 2030 set a goal of demonstrating, by 2030, the at-scale production of solid-state batteries that are cobalt- and nickel-free and that meet a production cost of less than \$60 per kilowatt-hour, with a specific energy of 500 watt-hours per kilogram.

Volkswagen said Tuesday it has invested another \$200 million into QuantumScape, a Stanford University spinout developing solid-state batteries as the automaker bets on a next-generation technology ...



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The round was led by Mercedes-Benz and Stellantis N.V. as part of the Joint Development Agreements with each company announced in November, 2021 Funding will help scale global commercialization of Factorial's solid-state battery technology that is safer and offers greater driving range than today's lithium-ion technology

Massachusetts-based Factorial has a new solid-state battery named Solstice. Factorial is backed by Mercedes-Benz, which led a \$200 million funding round in the ...

Shares in Toyota have surged over the past six months. Only a resurgent Tesla (), recovering from 2022's annus horribilis, has been able to keep pace with shares in the world's largest automaker.. A big reason for Toyota's 49% rise over that period - adding \$12tn (\$80bn) to its market value - is the Japanese car manufacturer's development of solid-state batteries.

SALZGITTER, Germany & SAN JOSE, Calif.--(BUSINESS WIRE)-- Volkswagen Group's battery company PowerCo and QuantumScape (NYSE: QS) today announced they have entered into a groundbreaking agreement to industrialize QuantumScape's next-generation solid-state lithium-metal battery technology. Upon satisfactory technical progress and certain ...

Mercedes has invested in Factorial, which raised \$200 million in 2022, alongside rivals Stellantis (STLAM.MI) and Hyundai (005380.KS). Factorial developed quasi-solid-state batteries first...

[solid-state battery company Factorial Energy raised \$200m] according to foreign media reports, US start-up Factorial Energy has raised \$200m. After completing this round of financing, the company will further develop solid-state batteries for electric vehicles and try to commercialize them. Factorial, which was founded three years ago and is headquartered in ...

Currently, Mercedes-Benz is still engineering and developing Factorial's first generation solid-state battery technology, dubbed FEST, after investing heavily in the company during a \$200 ...

CEO Hal Zarem told GigaOm's Katie Fehrenbacher that the company had "started working on a second-generation battery" which will have an energy density of 400 watt-hours per kilogram, claiming that the company's current batteries were at 300 watt-hours per kilogram. (Keep that "400" number in mind.) The second-generation Li-ion batteries use ...

Solid-state battery technology company QuantumScape Co. NYSE: QS stock awakened, jumping nearly 46% on news of a new agreement with PowerCo, a subsidiary of Volkswagen AG (OTCMKTS: VWAGY). QuantumScape received much hype and fanfare in 2021 regarding its solid-state lithium-metal battery technology backed by Volkswagen and ...

>A typical lithium-ion battery usually turns in about 200 - 250 Wh/L. Nope. About 250-693 Wh/L. There's



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two energy density metrics. By weight and by volume, and you're mixing them up.

Factorial Energy has raised \$200 million as part of a Series D round of funding led by Mercedes-Benz and Stellantis N.V. The company says the funding will be used to accelerate commercial production and deployment of its solid-state battery technology for EVs that offers up to 50 percent greater driving range than current lithium-ion technology.

QuantumScape faces significant barriers in its attempts to produce a solid-state battery cell and may not be able to successfully develop its solid-state battery cell. Building high volumes of multi-layer cells in the commercial form factor ...

The new material provides an energy density--the amount that can be squeezed into a given space--of 1,000 watt-hours per liter, which is about 100 times greater than TDK's current battery in ...

The company is talking about an energy density of up to 450Wh/kg for its solid-state battery called Solstice. This should increase the range of electric vehicles by up to 80 ...

Factorial Energy has raised \$200 million as part of a Series D round of funding, led by Mercedes-Benz and Stellantis - two new partners announced in November 2021. The Massachusetts-based...

Ganfeng Lithium's first generation battery will have an energy density of 260 watt-hour per kilogram (Wh/kg), and the second generation will be able to reach an energy density of 400 Wh/kg. This is compared to the theoretical threshold of 350 Wh/kg for mainstream lithium-ion batteries that still power almost all electric vehicles (EVs) on the road today, ...

Despite its tiny size, the battery manages to achieve a 200-watt-hour-per-liter energy density, which is comparable to that of larger, conventional lithium-ion batteries.

Samsung took part in the SNE Battery Day 2024 expo in Seoul this week to demonstrate its new battery technologies. The first batches from its pilot solid-state battery line have been delivered to ...

3 Gravimetric energy density defines battery capacity in weight terms, i.e. Watt hours per kilogram (Wh/kg). 4 The nominal battery energy per unit volume, i.e. Watt hours per litre (Wh/l). 5 Nature Nanotechnology (2017). Reviving the Lithium Metal Anode for High-energy Batteries. Lin, Liu, and Cui, Volume 12, March 2017

US DoE Funds \$100 Million in Non-Lithium Battery Projects; Stellantis Collaborates for Sustainable EV Battery Innovation; Fast-Charging and Affordable Solid-State Sodium Battery Emerges; European Sodium-Ion Battery Initiatives in 2024; The Hidden Chinese Battery: A Game-Changer in the Industry; Team Develops First Anode-Free Sodium Solid ...



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The CEO of ABEE Omar says that in 2025 they are aiming to achieve an energy density of 450 watt-hours per kilogram with solid-state batteries. Solid-state battery technology have so far found applications in terms of micro batteries to power sensors and other very small semi-conductors. The solid-state batteries are still in testing phase and there is not clear roadmap ...

Factorial Energy 40-amp-hour solid-state battery. Mercedes entered into the joint battery-development agreement with Factorial in 2021 and co-led a \$200 million funding ...

CATL has a sodium battery that hit an advertised energy density of 160 Wh kg <sup>-1</sup> in 2021 at a reported price of \$77 per kilowatt hour; the company says that will ramp up to 200 Wh kg <sup>-1</sup> in its ...

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