

What is QuantumScape battery technology?

QuantumScape is on a mission to transform energy storage with solid-state lithium-metal battery technology. The company's next-generation batteries are designed to enable greater energy density, faster charging and enhanced safety to support the transition away from legacy energy sources toward a lower carbon future.

Does QuantumScape have a solid-state battery?

One year after initial deliveries of solid-state battery prototype to its automotive partners, QuantumScape is receiving additional praise from PowerCo - the battery-centric subsidiary of Volkswagen Group - for the potential of its technology.

How will QuantumScape's lithium-metal solid-state batteries work?

QuantumScape's lithium-metal solid-state batteries will charge faster, go farther, last longer and operate more safely than today's EVs and gas-powered vehicles -- bringing us closer to that lower carbon future. Do you want to help build one of the most critical parts of the future energy economy?

Is QuantumScape a self-assembled EV battery?

Image (cropped): The California startup QuantumScape is one key step closer to commercial-scale production of its new solid state EV battery, featuring the only known self-assembling anode fabrication process in the auto industry (courtesy of QuantumScape).

Is QuantumScape a solid-state cell?

While the industry-standard targets for solid-state cells in this stage of development are 700 charging cycles and a maximum capacity loss of 20%, PowerCo states that QuantumScape's solid-state cell blew past those expectations, confirming the developer's own results outlined in its Q3 letter to shareholders.

Who owns QuantumScape?

During QuantumScape's tenure in solid-state battery development, Volkswagen Group has been a partner from early on and remains one of the startup's largest investors. OEMs like Volkswagen have helped empower QuantumScape to continue its development and deliver some of the most promising solid-state battery technology in the industry.

QuantumScape Corporation ("QuantumScape"), a leader in the development of next generation solid-state lithium-metal batteries for use in electric vehicles (EVs), announced today that it will be providing a first look at its solid-state electric vehicle battery technology at its "Solid-State Battery Showcase" on December 8, 2020, at 11am ET. The event can be ...

The US startup QuantumScape is in the first camp, and it has just passed another goalpost in its quest for a roadworthy solid-state battery. QuantumScape Ships Alpha-2 Prototype Solid-State Battery.

Payne's thoughts are shared by Volkswagen Group (VW), whose battery company, PowerCo (PCo), has partnered with one of the leading solid-state battery technology developers, QuantumScape (QS), to expedite the commercialisation of QS's solid-state battery technology. Fig 1: QuantumScape's multilayered solid-state battery. Partially owned by ...

QuantumScape is one of the biggest companies developing solid state battery technology. Image: QuantumScape. This article has been amended to reflect that 24M's technology is being sold into the energy storage market via the residential segment and no longer at a pre-commercial stage as was originally reported.

SAN JOSE, Calif.-(BUSINESS WIRE)- QuantumScape Corporation ("QuantumScape"), a leader in the development of next generation solid-state lithium-metal batteries for use in electric vehicles (EVs), announced today that it will be providing a first look at its solid-state electric vehicle battery technology at its "Solid-State Battery Showcase" on ...

QuantumScape released its Q3 2024 business report this afternoon, and the biggest news is an update regarding the progress of its solid-state battery development and production. According to the ...

Dr. Siva Sivaram, CEO and president of QuantumScape, stated: "This agreement is a major step in our long-term global scale-up strategy to bring QuantumScape's solid-state lithium-metal battery technology to market. Combining our cutting-edge technology with PowerCo's expertise in manufacturing and industrialization, this deal establishes ...

QuantumScape Co. NYSE: QS is a battery technology company that has been developing its next-generation solid-state lithium-metal electric vehicle (EV) battery for nearly 15 years. The auto/tires/trucks sector company is in its final stages before commercialization commences in 2025, when they start shipping their commercial batteries to start generating ...

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QuantumScape (NYSE: QS) hosted a Solid-State Batteries Symposium in Kyoto, Japan, bringing together battery equipment suppliers, materials suppliers, government leaders, and automotive customers to discuss the future of solid-state battery technology. The event featured speeches from Kyoto Mayor Koji Matsui and METI Director General Satoshi ...

QuantumScape's solid-state battery is packed full of innovation that places the battery distinctly apart from lithium-ion technology batteries and other solid-state designs: • Faster Charging : With the ability to

charge up to 80% in just 15 minutes, QuantumScape's battery dramatically reduces downtime for EV drivers.

PowerCo and US-based battery developer QuantumScape have entered into an agreement to industrialize QuantumScape's lithium metal solid-state battery technology. The non-exclusive license allows PowerCo to produce up to 40 gigawatt-hours per year of battery cells based on QuantumScape's technology, with the potential to expand to up to 80 ...

In sum, the QSE-5 B sample represents a significant advancement in battery technology and an important milestone for QuantumScape. Its impressive topline energy density also provides an example of the importance of the individual factors that go into delivering energy density in automotive applications, such as the physical cell dimensions, discharge rate, ...

4. A solid-state lithium metal battery can't need extra lithium. Battery tests like these can also be misleading if the battery has extra lithium in it. Lithium is the stuff that makes a lithium-ion battery go, so adding excess lithium to a battery can ...

QuantumScape stock is among the best ways to play solid-state battery theme. However, while the company could be a multibagger over the long term if its batteries get successfully commercialized ...

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