Latest solid state battery news

What is a solid state battery?
It's one of several advanced battery technologies that will underscore the brand's new EV focus as it pivots away from its former CEO's hybrid-centric strategy. Solid state batteries promise greater energy density, higher electric range, and faster charging that puts refueling time on-par with a gas-powered vehicle.

When will solid-state batteries be available?
The sector is further poised for a significant shift,with commercial availability anticipated by 2028and volume production by 2025. Advancements in electrolyte composition and battery architecture are fundamental to the development of solid-state batteries.

Are solid-state batteries a new era?
A New Battery Era: Solid-state batteries are revolutionizing the energy storage sector,with key players like Volkswagen,Toyota,and startups like LionVolt leading the charge.

Are solid-state batteries a solution to EV battery problems?
Just for a comparison,the Tesla Model Y has a 336-mile range and about 15-minute fast charging time. The long-awaited solid-state batteries have been touted by some industry experts as a potential solutionto EV battery concerns such as charging time,driving range,and fire risk. Solid-state batteries are nothing new.

Are solid-state batteries the future of energy storage?
Energy storage solutions will become more efficient, consumer electronics could enjoy longer battery life, and the fossil fuel industry may face increased pressure as renewable energy sources become more viable. The integration of solid-state batteries into various applications, from EVs to air taxis, signals a trend that businesses cannot ignore.

How will solid-state batteries impact the EV sector?
Impact on the Electric Vehicle (EV) Sector: Solid-state batteries are poised to revolutionize the EV sector by offering higher energy densities, longer life cycles, and faster charging times, potentially increasing vehicle range and performance.

2 ???· Last September, Toyota announced plans for their improved lithium-ion batteries, as well as a "breakthrough" in solid-state battery technology. It"s notable, because the company had been resisting its transition to electric ...

Solid-state battery developer QuantumScape has shared its latest milestone, delivering prototype samples to OEMs en route to commercialization and EV implementation one day.

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"breakthrough" in solid-state battery technology. It"s notable, because the company ...

Hyundai is set to shake up the EV market with advanced new batteries soon. In March, Hyundai will reveal its all-solid-state EV battery pilot line to the public for the first time.

Honda"s new facility could drive breakthroughs in solid-state batteries for electric cars, ultimately leading to batteries with more than double the range of existing EVs.

Huawei is the latest to jump on the SSB bandwagon with a high-energy-density sulfide-based battery. The Chinese company claims an energy density of over 500 Wh/kg, which should power an EV for up ...

The research not only describes a new way to make solid state batteries with a lithium metal anode but also offers new understanding into the materials used for these ...

From the latest industry events to important partnerships in the field, this quarterly solid-state battery news brief for April, May, and June 2024 provides a comprehensive snapshot of what is ...

Scientists have created an anode-free sodium solid-state battery. This brings the reality of inexpensive, fast-charging, high-capacity batteries for electric vehicles and grid ...

Toyota confirmed plans to launch solid-state EV batteries with 10-minute fast charging and up to 750 miles (1,200 km) WLTP range to close the gap with Tesla. However, with the new EV battery tech ...

Solid-state batteries are changing the EV game in 2025 with 500+ mile ranges, 15-minute charging, and fireproof chemistry. From Toyota to QuantumScape, this tech finally delivers the safety, speed, and longevity EV ...

Imagine an electric vehicle, powered by a new solid-state battery, that could travel nearly 750 miles on one charge, last 30 years and fully recharge in under 10 minutes.

With the promise of unlocking more range and faster charging at a much higher energy density, many carmakers and other companies are rushing to unlock all-solid-state EV ...

The new all-solid-state EV battery was developed with Mercedes to power its next-gen models. Factorial said its sulfide-based system addresses concerns over flammable liquid electrolyte designs.

The latest findings from Taipei-based intelligence provider TrendForce show that all-solid-state battery production volumes could have GWh levels by 2027. The rapid expansion will lead to cell ...

In November 2022, Honda announced a new polymer fabric that would get around the longevity problem. It plans to release an EV with a solid state battery by the end of the decade.

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