



Solid-state battery breakthrough

Are solid-state batteries paving the way for a new era of energy storage?

Rapid advancements in solid-state battery technology are paving the way for a new era of energy storage solutions, with the potential to transform everything from electric vehicles to renewable energy systems.

Are solid-state batteries the future of energy storage?

Discover the cutting-edge of energy storage with solid-state batteries, where innovations in inorganic solid electrolytes are enhancing safety and performance. This technology promises significant advancements for electric vehicles and renewable energy sectors, tackling major challenges to revolutionize energy use.

Why did Toyota announce a 'breakthrough' in lithium-ion battery technology?

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 vehicles (EVs), focusing instead on hybrids and vehicles powered by hydrogen fuel cells.

Could a new material help commercialize a solid state battery?

The Japanese automaker says it has found a new material that will help commercialize the elusive, long-awaited solid state battery, but it's light on details. The Lexus RZ (Credit: Toyota) Toyota says it has found a technological breakthrough that will allow it to bring solid state batteries to market as early as 2027.

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.

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 solution to EV battery concerns such as charging time, driving range, and fire risk. Solid-state batteries are nothing new.

Toyota says its breakthrough batteries will hit the market in 2027 or 2028, giving its EVs 745 miles of range--significantly greater than any gas-powered car today--with 10 ...

In a bold move that could redefine the electric vehicle (EV) industry, Samsung SDI has revealed a next-generation solid-state battery that offers a staggering 600-mile range, ...

As research and development efforts continue, we can expect to see even more impressive advancements in solid-state battery technology, further extending the range and ...



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According to Honda, one of the biggest challenges in solid-state battery production is ensuring consistent contact between the solid electrolyte and the electrode materials.

As research and development efforts continue, we can expect to see even more impressive advancements in solid-state battery technology, further extending the range and capabilities of EVs in the years to come.

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This paper reviews solid-state battery technology's current advancements and status, emphasizing key materials, battery architectures, and performance characteristics.

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ProLogium Technology, a global leader in solid-state battery innovation, will participate in IAA Mobility 2025 in Munich (9-12 September), presenting its latest 4th-generation Superfluidized All-Inorganic Solid-State ...

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 ...

Although Li-ion battery technology has been investigated for many years, a major breakthrough, the invention of solid-state batteries, has only recently arrived. It offers ...

Roula Khalaf, Editor of the FT, selects her favourite stories in this weekly newsletter. Japan's TDK is claiming a breakthrough in materials used in its small solid-state batteries, with the ...

Microvast's new all-solid-state battery technology eliminates liquid electrolytes for improved safety and higher energy density in EVs.

Is this the end of range anxiety? Toyota announces a solid-state battery breakthrough with a 1,200km range & 10-min charge. Our deep-dive explains the tech & ...

As we enter 2025, solid-state battery technology is finally moving from promising lab experiments to production vehicles, promising to eliminate the most persistent consumer ...



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