

Toyota solid state battery latest news





Overview

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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.

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.

An EV prototype revealed in 2023 expected to be powered by solid-state batteries. 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. Could this be the Holy Grail of EV.

After a long period of development, the company’s long-awaited solid-state battery is nearing production. This could be the biggest change in EVs since the frunk replaced the engine bay. Toyota Motor Corporation is a Japanese multinational automotive manufacturer founded in 1937 by Kiichiro Toyoda.

Reports are breaking that Toyota has achieved a monumental manufacturing breakthrough in solid-state battery technology. The claims are so staggering they feel like they belong in a science fiction novel: A range of 1,200 km (750 miles) on a single charge. The ability to recharge from 10% to 80% in.



Toyota's all-solid-state EV battery plans officially gained approval from Japan's Ministry of Trade and Industry (METI). The certification gives Toyota the green light to develop and build next-gen EV batteries as part of Japan's plans to boost domestic supply. Toyota announced that the METI. Does Toyota have solid-state batteries?

Toyota on Thursday provided an update on its battery development plans, including a more detailed roadmap for the rollout of solid-state batteries. The automaker has five next-generation battery designs, including both liquid and solid electrolytes.

Are solid-state batteries the first time Toyota reshaped the auto industry?

However, solid-state batteries won't be the first time the company dramatically reshaped the auto industry. In the 1970s, Toyota introduced Americans to the then-radical concept of cars that were small and fuel-efficient but still nice to drive. Up until that time, "fuel efficient" and "enjoyable" were mutually exclusive categories in America.

Did Toyota discover a 'technological breakthrough' with all-solid-state EV batteries?

Toyota also claimed to have discovered a "technological breakthrough" with all-solid-state EV batteries. Its first solid-state batteries are due out around 2028 with over 620 miles (1,000 km) WLTP range and 10-minute fast charging.

How many solid-state battery patents does Toyota have?

Toyota holds far more solid-state battery patents than other automakers. Over the past three years, Toyota registered over 8,000 solid-state battery patents. Many are assigned jointly with Idemitsu. Hyundai, Kia and Honda are actively researching solid-state battery innovation.

Will Toyota introduce solid-state batteries in hybrids in 2025?

While Toyota originally planned to introduce solid-state batteries in hybrids, with an executive saying last year that this would happen by 2025, the automaker says it's now focusing on EV applications for the slightly later timeframe mentioned above.

Are Toyota batteries ready for commercial use?

The automaker has five next-generation battery designs, including both liquid



and solid electrolytes. Toyota expects the solid-state batteries, which the company has been researching with Panasonic, to be "ready for commercial use" by 2027 or 2028, according to a company press release.



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[2x EV range: Toyota's solid-state battery cathode ...](#)

Researchers have used a new cathode material for all-solid-state fluoride-ion batteries (FIBs) that provides double the capacity of typical lithium-ion cathodes.

Toyota plots solid-state battery timeline for future EVs

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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 ...



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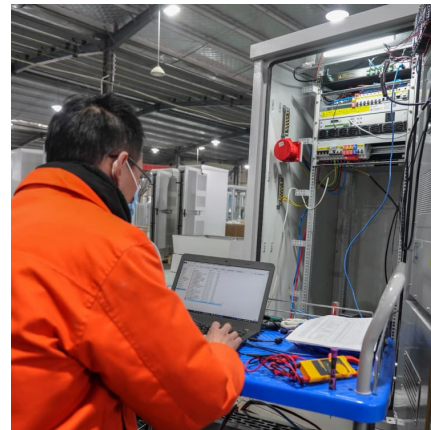


2x EV range: Toyota's solid-state battery cathode beats lithium ...

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[Toyota's Next-Generation BEV Battery Development ...](#)

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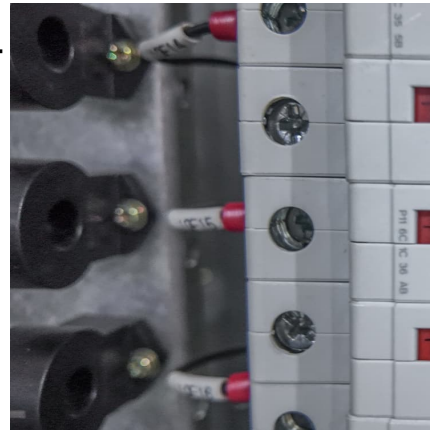
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Toyota's Secret Weapon: The 745-Mile Solid-State Battery That ...

Toyota's groundbreaking solid-state battery promises to revolutionize the EV industry with a staggering 745-mile range. Will this be the biggest change in electric vehicles ...



Toyota's Solid-State Battery: The 1,200km Breakthrough Explained

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 & ...

[Toyota Solid-State Battery Cars: 2025 Rollout Plan](#)

In a monumental leap toward the future of electric mobility, Toyota is preparing to redefine the industry with the rollout of its solid-state battery electric vehicles (EVs) starting in 2025.



[New Record-Breaking EV In Pipeline With 745 Miles ...](#)

As an integral part of its decarbonization strategy, Toyota says that its new solid-state batteries could be offered in its next-gen EVs as early as 2027.



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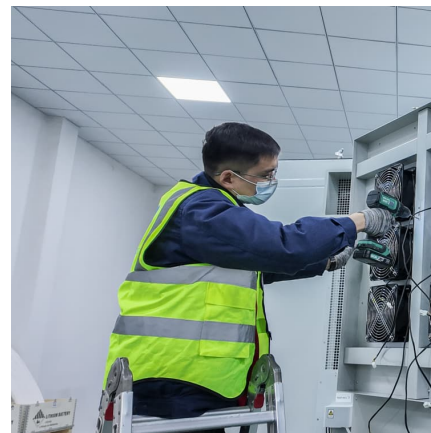


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