

# Solid state battery update





## 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 field of solid-state battery technology has witnessed remarkable advancements in recent years. These advancements are driven by intensive research and substantial industry investments. This comprehensive report provides an up-to-date overview of solid-state batteries in 2025. We will delve into.

With “solid-state battery” and 1,000 km range, starting at 31,800 USD Solid-state battery explained. When it’s coming to mass production?

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This quarterly report is derived from an in-depth analysis of all key events that are happening around solid-state battery today. You can catch up on the latest, must-know breakthroughs, major acquisitions & investments, and other events in the solid-state battery landscape, covering everything.

The semi-solid-state batteries will be supplied to BMW Mini's next-generation models, with mass production planned for 2027. Gotion's Gemstone all-solid-state battery has been loaded into vehicles and tested on the road. Changan aims to validate solid-state batteries in vehicles by 2026, and move.



Toyota confirms 750 mi range solid-state EV battery plans to catch up to Tesla, but when?

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 still a few. When will solid-state battery technology come out?

Now, Toyota plans to introduce them in 2027/2028, with mass production coming after 2030. By then, several companies will have already rolled out the tech. Volkswagen, Hyundai, Nissan, BMW, and others are also working to release solid-state battery tech.

What's new in solid-state batteries in 2025?

These advancements are driven by intensive research and substantial industry investments. This comprehensive report provides an up-to-date overview of solid-state batteries in 2025. We will delve into new materials, innovative manufacturing techniques, cutting-edge research, commercialization efforts, and key performance metrics.

What is a solid-state battery?

Solid-state batteries are nothing new. Solid electrolytes were created in the 1800s, and they are currently used in small electronic devices like pacemakers and medical devices. Last October, Toyota announced signing a deal with Japanese petroleum company Idemitsu Kosan to mass produce solid-state batteries.

When will solid-state batteries be ready for commercial use?

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. This will be made possible by "technological advancements" that can extend battery life, a current weak point of solid-state batteries, Toyota said.

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 ready for a third generation?

Chinese battery manufacturer Farasis Energy has published an update on the progress made with its solid-state batteries. It says the third generation, which has a completely solid electrolyte for the first time, is undergoing automotive-grade certification and development. Scaling is planned for 2025.



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### Solid-state battery from Farasis undergoes practical testing

Chinese battery manufacturer Farasis Energy has published an update on the progress made with its solid-state batteries. It says the third generation, which has a ...

### [What's Currently Happening in Solid-State Batteries?](#)

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 happening in the global solid-state battery ...



### Latest Developments in Solid-State Battery Technology: A 2025 Update

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### [Toyota's Breakthrough in Solid-State Batteries](#)

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### **Recent Advances in Solid-State Batteries , Journal of the ...**

Over the past decade, significant progress has been made in developing solid-state batteries as high-energy-density alternatives to conventional lithium-ion batteries (1-5).



### **Toyota plots solid-state battery timeline for future EVs**

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### Solid-state Battery

BYD's chief scientist expects solid-state batteries to be widely used in 5 years, starting with high-end models, the first time a BYD executive has spoken publicly on the topic in the last few years.



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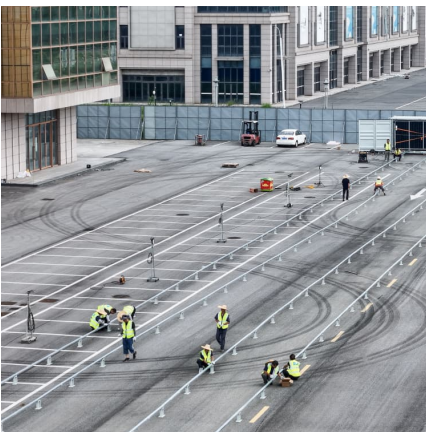
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### **US firm achieves breakthrough in all-solid-state EV battery ...**

US-based battery tech firm Microvast has achieved a milestone in the development of its True All-Solid-State Battery (ASSB) technology.

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