

# **Solid-state battery news**





## Overview

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Eve Energy is constructing a solid-state battery production base in Chengdu, targeting an annual capacity of 100 MWh by December 2026. Eve Energy has rolled out all-solid-state batteries for humanoid robots and flying cars, as the battery giant opened a new mass production base in Chengdu, Sichuan.

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.

Japanese oil giant, Idemitsu Kosan, is building a new large-scale lithium sulfide plant that will supply the raw material for Toyota’s upcoming all-solid-state EV batteries. Toyota has been promising to launch all-solid-state EV batteries for years, but those plans may finally be coming together.

In a bold and highly anticipated move, Tesla CEO Elon Musk has officially unveiled plans for a revolutionary solid-state battery that will change the game for electric vehicles (EVs) in 2025. This announcement comes in response to the growing pressure from competitors, particularly BYD, the Chinese.

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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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. Are solid-state batteries the future of energy storage?

Solid-state batteries (SSBs) are frequently hailed as the future of energy storage. They promise significant improvements over conventional lithium-ion batteries in key areas such as energy density, safety, and charging speed.

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.

Can solid-state batteries be commercialized?

The global race to commercialize solid-state batteries is intensifying. Major corporations and innovative start-ups are announcing ambitious timelines and showcasing significant prototype achievements. Toyota has strategically positioned solid-state battery technology as a cornerstone of its future electric vehicle (EV) strategy.

Can solid-state batteries revolutionize the electric vehicle industry?

The successful development and commercialization of solid-state batteries may transform numerous sectors. SSBs could revolutionize the electric vehicle industry by delivering longer driving ranges, drastically reduced charging times, enhanced safety features, and lighter battery packs.

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.

When will a solid-state battery be available for commercial use?

Toyota has moved its focus to bringing solid-state batteries into mass



production and ready for commercial use by 2027 or 2028. Toyota's first solid-state battery is expected to offer a 621-mile driving range with an 80 percent fast charging time of just around 10 minutes.



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

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

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.



### [Toyota Touts Solid State EVs With 932-Mile Range, ...](#)

Since solid state batteries are still years away, Toyota revealed short-term plans for improved batteries. It will offer several options, including high-performance packs.



### **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 ...



### **Solid-State Batteries: 2025's EV Tech Breakthrough Is Finally Here**

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 ...



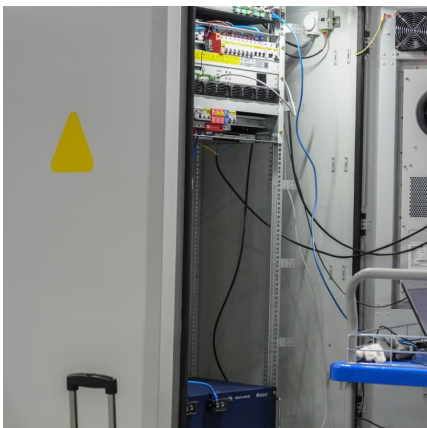
### **Solid-state batteries are big news at the moment: What are they ...**

If solid-state batteries are so much better, why don't we use them everywhere? One big reason, common to all technological advancements, is that the old stuff was here first.



### [Honda promises solid-state batteries that could ...](#)

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.





### Toyota's Breakthrough in Solid-State Batteries

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### **Toyota Touts Solid State EVs With 932-Mile Range, 10-Minute**

Toyota says it has found a technological breakthrough that will allow it to bring solid state batteries to market as early as 2027. It's one of several advanced battery ...

### **Honda promises solid-state batteries that could double EV range ...**

Honda plans to produce solid-state batteries for electric vehicles (EVs) that could deliver up to 620 miles (1,000 kilometers) on a single charge -- more than double the range of ...



### Latest Developments in Solid-State Battery ...

A key driving force behind solid-state battery technology is the promise of superior performance compared to the current generation of lithium-ion cells. Recent prototypes and emerging test data provide valuable insights into ...



### **Solid-State Batteries: 2025's EV Tech Breakthrough Is ...**

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 concerns about EVs: range anxiety, ...

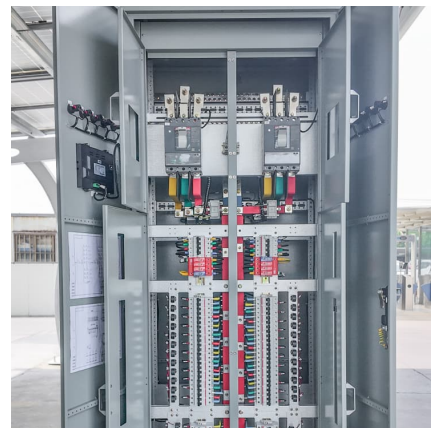


### **New Record-Breaking EV In Pipeline With 745 Miles Of Range**

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.

### [Elon Musk Announces All-New Solid State Battery For...](#)

By pushing the boundaries of energy density, charging speed, and safety, Tesla's new solid-state battery could make long-range EVs with ultra-fast charging a reality for millions of consumers.





### **The state of solid-state batteries: We may be on the cusp of an**

So, what's the state of solid-state batteries right now, and how far are we from finally seeing them and reaping their rewards? Here's a look.

### Toyota's all-solid-state EV batteries just got a lift

Will Toyota actually launch EVs powered by all-solid-state batteries? They have been touting the new battery tech for years, but it seems to have made some progress recently.



### **Eve Energy starts production of all-solid-state batteries for ...**

14 ?????· The all-solid-state battery cell achieves an energy density of up to 300 Wh/kg or 700 Wh/L. Eve Energy is constructing a solid-state battery production base in Chengdu, targeting ...

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