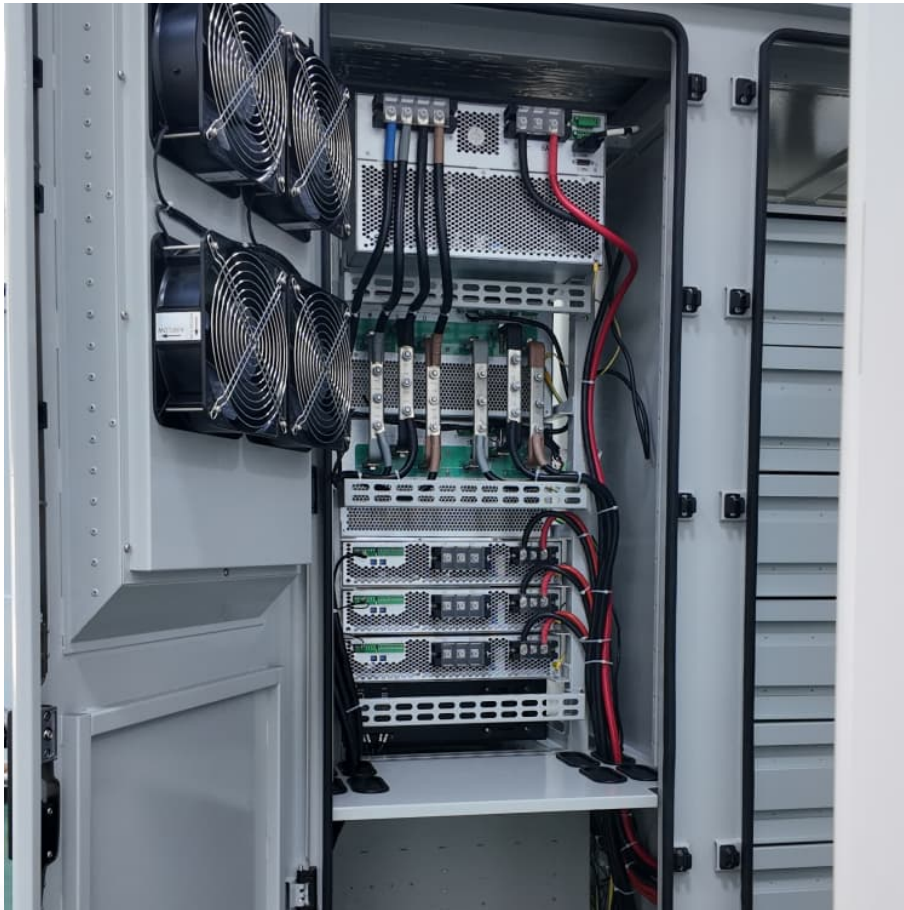


Catl solid state battery mass production





Overview

A Chinese local media outlet, Late Post, has reported that the company aims to achieve small-scale volume production of its all-solid-state battery by 2027. The company has reportedly invested heavily in research and development, with a dedicated team of over 1,000 people.

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CATL's prototype solid-state batteries have an impressive energy density of 500 Wh/kg, a 40 percent improvement over current lithium-ion batteries that typically reach 350 Wh/kg. CATL is developing solid-state batteries using a promising technology called the sulfide route. (Representational image).

CATL is aiming to produce pure solid-state batteries in small quantities for the first time in 2027. A company representative describes large-scale production as "still challenging". This is the first time ever that the world's largest manufacturer of electric car batteries has outlined a timetable.

In recent years, with the vigorous development of the new energy vehicle market, solid-state batteries, as the core of the next generation of power battery technology, are gradually moving from the R&D stage to mass production. With the announcement of the mass production schedule of solid-state.

CATL, a leading player in the global lithium-ion battery market from China, has announced a major breakthrough in the realm of solid-state batteries. Leveraging the sulfide route technology, the company is determined to revolutionize electric vehicle (EV) power sources by moving towards 500 Wh/kg.

CATL has chosen the sulfide technology route in the research and development of all-solid-state batteries, and has now entered the trial production stage of 20Ah samples. This R&D path has high ionic conductivity



and good mechanical properties, and is considered suitable for large-scale.

The Shenxing Plus battery adds 372 miles in 10 minutes of charging and is built with affordable LFP cell chemistry. CATL also budged on solid-state batteries and will start their mass production. Daniel Zlatev, Published 04/29/2024. The world's biggest EV battery maker CATL has. Will CATL produce solid-state batteries in 2027?

CATL is aiming to produce pure solid-state batteries in small quantities for the first time in 2027. A company representative describes large-scale production as "still challenging". This is the first time ever that the world's largest manufacturer of electric car batteries has outlined a timetable for the introduction of solid-state batteries.

What is CATL doing with solid-state batteries?

CATL has been involved in the research and development of solid-state batteries for more than a decade. According to Wu, an R&D team with almost 1,000 employees is now working on solid-state batteries and new battery systems. Co-operations with universities and other players in the battery industry are also intended to advance the topic.

When will CATL's solid-state batteries start production?

Figure: CATL's solid-state batteries, which are expected to start small-batch production in 2027. This progress not only demonstrates CATL's in-depth exploration of key materials and technology routes, but also highlights its technological accumulation in high-energy-density materials and interface design.

What is CATL's current level of research on solid-state batteries?

Details: The company's current level of research on solid-state batteries stands at 4, on a scale of 1-9 for technical and manufacturing maturity, CATL's chief scientist Wu Kai disclosed at a battery technology seminar.

Can CATL produce all-solid-state batteries?

CATL's goal was to reach a score of 7-8 by 2027, meaning that it can produce all-solid-state batteries in small batches at that time, but mass production will still face problems including costs, Wu said.

What is CATL's role in the development of all-solid-state batteries?



CATL, as the world's leading battery company, has advanced the research and development of all-solid-state batteries to new heights. China Exportsemi will deeply analyze CATL's latest progress in the field of all-solid-state batteries, including key technology paths, R&D team size, industry impact and future development direction.



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China: CATL's solid-state EV battery to enter mass production in ...

A Chinese local media outlet, Late Post, has reported that the company aims to achieve small-scale volume production of its all-solid-state battery by 2027.

[CATL Reveals Solid-state Battery Details Disclosed](#)

CATL plans to achieve level 7-8 technology maturity for all-solid-state batteries by 2027 and start low-volume production. If this goal is achieved, CATL will further consolidate ...



[China: CATL's solid-state EV battery to enter mass ...](#)

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CATL Aims for Mass Production of 500 Wh/kg Solid-State EV ...

The project aims to facilitate the feasibility of small-batch production by 2027, but scaling up to mass production will still be hindered by



several daunting challenges, including ...



[CATL Intensifies Solid-State Battery Research](#)

At the 2024 China International Battery Fair in April, CATL had announced a timetable for mass production of solid-state batteries. Chief scientist Wu Kai reported that ...

[CATL bet on solid-state becomes reality - Batteries ...](#)

This was the first time the battery maker had announced a mass-production timeline for the new type of battery. CATL chairman Robin Zeng said this September that his company's research in the field of all-solid-state ...



CATL ups bet on all-solid-state batteries, begins sample ...

In a presentation at the China International Battery Fair (CIBF) 2024 event on April 28, Wu said CATL was targeting small-volume production of all-solid-state batteries in ...



CATL expects to produce its own solid-state batteries in small ...

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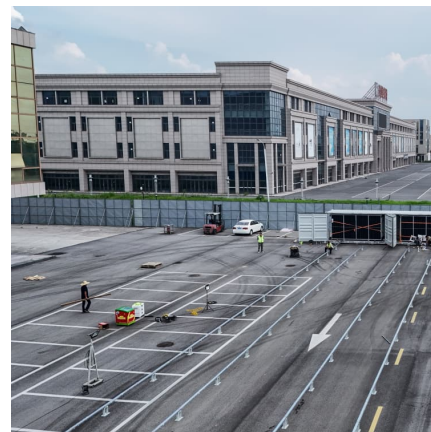


[CATL Aims for Mass Production of 500 Wh/kg Solid ...](#)

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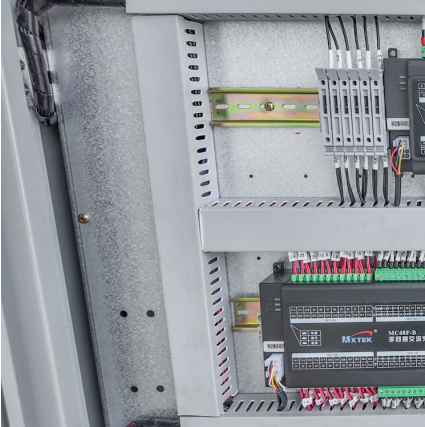
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CATL targets small-scale production of solid-state batteries

Chinese battery manufacturer and technology company Contemporary Amperex Technology Co. Limited (CATL) revealed on Monday that it is committed to the research and ...





CATL announces solid-state battery production and 600-mile LFP ...

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