

# Development of China's solid-state battery enterprises

Are all-solid-state batteries coming to China?

Since the second quarter of this year, the development of all-solid-state batteries has accelerated in China. A batch of automakers and battery firms have announced solid progress has been made in that direction.

What will China's battery industry be like until 2030?

Xu Yanhua, secretary of the China Automotive Battery Innovation Alliance, said that until 2030, the country's power battery industry will still be dominated by high-energy-density liquid batteries and lithium iron phosphate batteries.

Are Chinese companies ready for a solid-state battery?

Solid-state batteries are sensitive to moisture, so their manufacturers need special equipment to keep humidity away from production lines. While government initiatives should accelerate solid-state battery development, Chinese companies aren't waiting. Battery makers have already started formulating plans for the next-gen technology.

What is solid-state battery development?

In the United States, solid-state battery development is primarily led by startups with high innovation potential. Companies like QuantumScape and Solid Power have solid-state battery products in the A-sample stage, while SES' lithium-metal solid-state batteries have entered the B-sample stage.

What are China's solid-state battery technical routes?

Additionally, China's solid-state battery technical routes are diverse, with a focus mainly on semi-solid/state-liquid hybrids, with semi-solid-state battery achieving small-scale production and adoption in vehicles, but investment in ASSB remains insufficient in China, and resources are dispersed.

Which countries use sulfide to develop a solid-state battery?

Currently, Japan and South Korea mainly select sulfide as the primary technical route. In light of the development progress of ASSB in major regions globally, Japan is an early starter in R&D, which takes a lead in the application of patents, and accumulates the most solid-state battery patented technologies worldwide.

In January, the Chinese government formed the China All-Solid-State Battery Collaborative Innovation Platform (CASIP) -- a consortium of battery and EV makers to begin work on the development of solid-state batteries. The consortium's aim was to begin production of solid-state batteries by the end of the decade. CASIP participants include CATL, CALB, EVE ...

In China, the SSLB-relevant fundamental research and industrialization exploration are progressing rapidly. In this perspective, we present a timely overview of the recent research and development of SSLBs in China in

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the past 1 year, covering the latest achievements of SSLBs which used sulfide SEs, oxide SEs, solid polymer electrolytes, and ...

CHENGDU, Sept. 3 (Xinhua) -- The latest advancements and strategic directions of China's power battery industry have been highlighted at the 2024 World Power Battery Conference held in the city of ...

Chinese automakers and battery giants, including BYD, CATL, and NIO, are teaming up to form an "all-star" lineup aimed at developing all solid-state EV batteries.. In a move that could ...

solid-state batteries in China and the stakeholders in the process of industrial development, and finally draws a technology roadmap for the development of China's solid-state battery industry based on industrial characteristics. In the future, along with energy transformation and national

Promoting the growth of the lithium battery sector has been a critical aspect of China's energy policy in terms of achieving carbon neutrality. However, despite significant support on research and development (R& D) investments that have resulted in increasing size, the sector seems to be falling behind in technological areas. To guide future policies and understand ...

The Chinese government is planning to invest more than 6 billion yuan (about \$830 million) into the research and development of solid-state batteries as part of efforts to maintain its lead in the electric vehicle market.

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Accelerated efforts of both the Chinese government and the private sector are expected to lead to installation of all-solid-state batteries in electric vehicles by 2027 nationwide and mass production of such batteries by 2030 at the latest, said automotive industry insiders.

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4 ???&#0183; Solid-state batteries have emerged as a key focus for developers with rising investment since the beginning of the year. Battery sector information provider Gaogong Industry Institute said new production capacity for solid ...

This paper first analyzes the industrial chain of solid-state batteries in China and the stakeholders in the process of industrial development, and finally draws a technology roadmap for...

[Show full abstract] in China and the stakeholders in the process of industrial development, and finally draws a technology roadmap for the development of China's solid-state battery industry ...

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BYD subsidiary FinDreams Battery, CATL, CALB, EVE Energy, Gotion High-Tech, and SVOLT have formed a consortium called China All-Solid-State Battery Collaborative Innovation Platform (CASIP) to develop and ...

The move is in line with China's push to overtake Japan in the development of the next-generation battery tech. In February, Beijing formed the China All-Solid-State Battery Collaborative Innovation Platform (CASIP) -- a consortium of leading battery and EV makers to begin work on the development of solid-state batteries.

Based on different solid electrolyte technical routes, ASSB can be divided into four types: polymer, oxide, halide, and sulfide solid-state batteries. Each of these technology routes has its own advantages and disadvantages.

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