



# Does China have solid battery technology now

Will China build a solid-state battery supply chain by 2030?

Aiming to build a supply chain for solid-state batteries by 2030, Beijing in January set up a consortium, the China All-Solid-State Battery Collaborative Innovation Platform (CASIP), which brings together government, academia, and industry, including EV battery rivals CATL and BYD.

Are sulfide-based all-solid-state batteries coming to China?

At a conference held by the China Automotive Battery Innovation Alliance late last week, Ouyang Minggao, a renowned battery expert and an academician with the Chinese Academy of Sciences, said that in China, the closest technical route to industrialization is the sulfide-based all-solid-state batteries.

Could China's all-solid-state batteries revolutionize the EV market?

In a move that could revolutionize the EV market, China's leading auto and battery manufacturers are forming an alliance to commercialize all solid-state batteries. According to Nikkei Asia, the China All-Solid-State Battery Collaborative Innovation Platform, or CASIP, was formed last month.

Will solid-state EV batteries make China a powerhouse?

Chen Qingtai, head of China EV100, argued that solid-state EV batteries can shift the industry's power balance. Working together will ensure China becomes an "automotive powerhouse." Although many others, including Toyota, have promised to bring solid-state EV battery tech to market for years, there's still little show.

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 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.

China already has 10 GWh of capacity for solid-state batteries, with more than 128 GWh of capacity planned for the medium term -- around 2025, CITIC Securities analyst Liu Yi's team said in a research note today, noting that this is an incomplete count.

Chinese automaker GAC Group said on April 12 that it had broken through several obstacles regarding the durability and safety of "all-solid-state" batteries, and expected its future rollout of the technology to offer ...

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China's battery and car makers have united as part of a government-led drive to commercialize all solid-state batteries, challenging Japan and the West in an area of technology that could revolutionize the electric vehicle market. Aiming to build a supply chain for solid-state batteries by 2030, Beijing in January set up a consortium, the China All-Solid-State Battery ...

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 manufacture solid ...

The China All-Solid-State Battery Collaborative Innovation Platform (CASIP), a government-led consortium, has brought together China's battery and automotive industries to accelerate the development and commercialization of solid-state batteries with the goal of creating a competitive production framework by 2030.

BYD will introduce its second-generation "blade" battery pack - with enough range to drive an electric car from Sydney to Melbourne on a single charge - as soon as August 2024.

Officials in Beijing have brought China's top battery and carmakers together in a bid to secure a greater stronghold on the production of electric and new-energy vehicles.

Not just in China. Outside China, there is promising news about solid state technology too. The U.S. company QuantumScape (whose investors include Volkswagen Group), announced on December 22 that it had produced a prototype solid state battery. Volkswagen Group stated in 2021 that it expected solid state batteries to be in use by 2025, while Hyundai ...

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. Other US companies such as Ampcera, Factorial Energy, 24M Technologies, and Ionic Materials have channeled more efforts in solid-state battery technical innovation.

The company, now China's fourth-largest EV battery maker, envisions large-scale delivery of the battery to

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EV assemblers in early 2025. [73] EV battery technology continues to evolve, and the next generation of EV batteries is expected to be ASSBs. Unlike lithium-ion batteries, which use liquid electrolytes between their electrodes, solid-state batteries employ a ...

On Monday, a regulatory filing revealed Beijing had set up a \$47.5 billion fund to boost the production of advanced chips. Both EV batteries and semiconductors are key areas of interest for China as it battles a bitter trade and tech war with the United States and Europe.

China will likely adopt a dual-track approach to the development of EV batteries. It will keep improving liquid lithium-ion batteries to "maintain advantages globally", while intensifying research and development of all-solid-state batteries, to "prevent disruption" by other countries, they said.

By now, most people in the battery community and beyond will have heard of solid-state batteries. For more than 10 years now, car manufacturers have been promising that this new technology will make range problems in electric cars a thing of the past. Accordingly, the automotive industry is also strongly promoting development and there are numerous ...

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