



# China's first solid-state battery technology

A total of six companies -- including CATL, the world's biggest battery manufacturer, and major automakers like BYD and Geely -- are eligible for government support to develop all-solid-state ...

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 ...

For example, China's NIO began offering its new ET7 sedan with a 150 kWh semi-solid-state battery for daily rentals in June. 2024 NIO ET7 (Source: NIO) The tech remains costly.

On May 19, Ganfeng Lithium, the world's largest lithium producer, made an important announcement: the company's first generation solid-state battery has commenced mass production. First unveiled in December 2021, Ganfeng Lithium's solid-state battery uses an oxide electrolyte with a solid diaphragm. ... China's battery king, announced a ...

China, in particular, is investing heavily in solid-state battery development, having assembled a billion-dollar fund to help its domestic champions produce these batteries first. To win, the ...

China's top research institution is pushing the "industrialization" of solid-state batteries with a new task force, said Miao Wei, a former Minister of Industry and Information Technology (MIIT) and a core member of Chinese People's Political Consultative

China's battery and carmakers have united as part of a government-led drive to build a supply chain for solid-state batteries by 2030, writes Nikkei's Shunsuke Tabeta ...

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 drivers ...

BMW aims to launch its first prototype vehicle based on Solid Power's solid-state battery technology by 2025. Last year, Toyota has repeatedly stated its intention to commercialize solid-state battery technology by 2027 ...

Battery makers as well as automotive companies like Toyota, Nio, BMW, and Volkswagen, are investing in SSBs technology. Moreover, Solid State Battery startups are also collecting funding to improve SSBs for different applications. In the initial seven months of 2024, China's production capacity for solid-state batteries soared past 142 ...

According to news out of CnEVPost, NIO has officially submitted a second filing with the Ministry of Industry and Information Technology (MIIT) in China to include solid-state batteries. While the ...



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Solid state batteries were not supposed to happen until the end of the decade, but it sure looks like they are happening now. The new technology is billed as a next-generation improvement on the ...

BEIJING -- 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...

Battery maker Sunwoda told China Daily that it has finished R& D of its all-solid-state battery with an energy density of more than 400 Wh/kg, and plans to mass-produce it by 2026, with an ...

Toyota's first solid-state battery-powered EV was due out in 2021, then it was in 2022. We still have yet to see the technology, and it's already 2024. Now, Toyota plans to introduce them in ...

IM Motors claims its 130 kWh Lightyear "solid-state battery" is the industry's first mass-produced semi-solid-state battery with ultra-fast charging capabilities. Other variants feature two NMC battery choices with standard liquid electrolytes, 90 kWh and 100 kWh, providing a range of 700-770 km CLTC. IM L6 is the brand's latest model.

BEIJING (Reuters) - China plans to invest more than 6 billion yuan (\$830 million) in a government-led project to develop solid-state batteries with six firms eligible for state funding to work on ...

After becoming one of the world's biggest lithium-ion battery suppliers, the country is preparing to secure pole position in solid-state batteries, widely considered the next-generation technology. Reuters reports that the government has selected CATL, Nio-backed WeLion New Energy Technology, BYD, FAW, SAIC, and Geely to work on a government ...

A team of Chinese researchers has developed a solid-state battery model that promises to be significantly more affordable. The new design, created by the University of Science and Technology of ...

TOKYO -- Scientists in China have recharged a solid-state lithium-sulfur battery 1,400 times, a breakthrough that brings the technology closer to comm Lithium-sulfur cell keeps most of its ...

The China All-Solid-State Battery Collaborative Innovation Platform (CASIP) alliance is "aimed at leading the world in solid-state battery technology" and reportedly counts six of the top 10 ...

Among them, WeLion New Energy's first semi-solid state battery was rolled off the production line in November 2022, with energy density of 360Wh/kg; Talent New Energy put into production China's ...

A senior CATL scientist named Wu Kai made the announcement yesterday at the China International Battery Fair (CIBF) in Shanghai that CATL is aiming for small-scale production of solid-state batteries by 2027. He is



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quoted on Chinese portals such as CN EV Post as saying that the maturity level of the technology and the manufacturing process can currently ...

Samsung captured the spotlight by announcing its groundbreaking solid-state battery technology at the InterBattery conference held on November 5, 2023, in Seoul, South Korea. This next-generation battery is ...

Chinese electric vehicle battery maker Gotion High-Tech Co Ltd unveiled its all-solid-state battery on Friday, eyeing "production in small quantities" by 2027, as Chinese companies strengthen ...

Nissan Motor and Honda Motor are also competing to develop solid-state batteries, and commercializing the technology would be a boon for Japanese automakers, which are trailing China's BYD and ...

On January 22, Dongfeng Motor Corporation announced the delivery of its first 50 Dongfeng Fengshen (Aeolus) E70 pure electric vehicles powered by high-specific energy solid-state lithium batteries developed through a joint venture project between Dongfeng Technology Center and Ganfeng Lithium Battery. The new E70 with a solid-state battery pack also supports battery ...

The primary goal of this review is to provide a comprehensive overview of the state-of-the-art in solid-state batteries (SSBs), with a focus on recent advancements in solid electrolytes and anodes. The paper begins with a background on the evolution from liquid electrolyte lithium-ion batteries to advanced SSBs, highlighting their enhanced safety and ...

People walk past the booth of the battery manufacturer Contemporary Amperex Technology Co Limited (CATL) at the Auto Shanghai show, in Shanghai, on April 18, 2023. CATL will be a key part of China's new national body looking for a solid-state battery breakthrough. Photo: Reuters.

The IM Motors Zhiji L6 could get 621 miles of range from its 130-kWh solid-state battery when it goes on sale. ... between China's state-owned SAIC group, e-commerce company Alibaba and property ...

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