

China battery back up power

With high-quality battery cells and a in-house battery management system (BMS), CATL provides power generation customers accurately optimized assistance for grid-friendly power output.

China is committed to steadily developing a renewable-energy-based power system to reinforce the integration of demand- and supply-side management. An augmented focus on energy storage development will substantially lower the curtailment rate of renewable energy and add tractability to peak shaving, contributing to coal use reduction in China.

After more than 20 years of high-quality development of China's electric vehicles (EVs), a technological R & D layout of "Three Verticals and Three Horizontals" has been created, and technological advantages have been accumulated. As a result, China's new energy vehicle market has ranked first in the world since 2015.

The Peterson Institute's Hendrix says instead of fighting it, automakers, like Ford and Tesla, are turning to Chinese EV battery giant CATL to tap into its battery technology.

According to the Australian Strategic Policy Institute, 65.5 percent of widely cited technical papers on battery technology come from researchers in China, compared with 12 percent from the...

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Electric vehicles lined up at a Chang'an Automobile distribution centre in Chongqing, October 2023. China's EV exports grew by 122% year-on-year in the first three months of 2023. (Image: Alamy)

China accounts for more than 80% of the global solar cell exports, more than 50% of lithium-ion batteries and more than 20% of electric vehicles.

The main propellers behind the surging trio are consistent government support, an early start, strong and low-cost domestic supply chains, and a massive home market driving economies of scale, experts have told China Dialogue.

They also pointed to Chinese companies' ability to continuously innovate.

But geopolitical tensions bring uncertainty to the global manufacturing future of the "new three", some experts say. Trade restrictions placed on China by its major trading partners, particularly the US and Europe, could possibly affect its leading position, with some other countries showing a keenness to step in.



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"In the short term, China will likely maintain its advantage in these sectors. I don't think other countries will overtake China suddenly," says Li Dan, executive secretary of the Renewable Energy Professional Committee of China Circular Economy Association.

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