



China huaneng battery storage

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State-owned Assets Supervision and Administration Commission of the State Council

The 100-megawatt to 200-megawatt-hour independent energy storage station developed by China Huaneng Group Co., Ltd. (China Huaneng) was connected to the power grid on Dec 29, 2021, beginning operation of the world's first 100-MW decentralized-controlled energy storage station.

With a designed life span of 25 years, the project includes construction of 37 sets of lithium iron phosphate battery storage units and a 220-kilovolt booster station.

What's more, the station will increase the annual consumption of new energy power by 100 million kWh, an equivalent to elimination of burning of 30,000 tons of coal.

The station is installed with the 1,500V-level decentralized-controlled battery energy storage technology developed by China Huaneng, which can provide independent and refined management of each battery cluster through modularized energy storage conversion and improve the actual availability of the batteries.

It is estimated that once operational, battery capacity utilization of the energy storage station will reach about 92 percent, about seven percent higher than the current average industrial level.

In addition, the decentralized control of battery clusters can also help realize automatic calibration of battery state of charge (SOC), which significantly reduces operation and maintenance workloads.

Construction of the project started on Sept 28, 2021, and took only 90 days to complete, the shortest period among the first batch of power peak load regulation projects in Shandong Province in 2021.

Our combined knowledge, your competitive advantage

Battery-based energy storage project

Construction works were simultaneously started on two 50MW facilities in December 2019 with commissioning expected by the end of 2020. The initial 100MW project is being built with Chinese investment while the China Huaneng Group is responsible for the construction and operation of the facility.

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