

## Kongres Container

# Nine-megawatt energy storage integration project



## Overview

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CATL today unveiled the TENER Stack, the world's first 9MWh ultra-large capacity energy storage system solution set for mass production at ees Europe 2025, representing a strategic leap forward in capacity, deployment flexibility, safety, and transportability. What is Ningxia power's energy storage station?

On March 31, the second phase of the 100 MW/200 MWh energy storage station, a supporting project of the Ningxia Power's East Ningxia Composite Photovoltaic Base Project under CHN Energy, was successfully connected to the grid. This marks the completion and operation of the largest grid-forming energy storage station in China.

Which energy storage station project was successfully connected to the grid?

Source: ASIACHEM WeChat, 1 April 2025 The 101MW/205MWh energy storage station project constructed by CHN Energy I&C for the Guoneng Penglai Power Generation Co., Ltd. was successfully connected to the grid on 29 March.

What is the largest grid-forming energy storage station in China?

This marks the completion and operation of the largest grid-forming energy storage station in China. The photo shows the energy storage station supporting the Ningdong Composite Photovoltaic Base Project. This energy storage station is one of the first batch of projects supporting the 100 GW large-scale wind and photovoltaic bases nationwide.

Will a 9 MWh power plant save 20% on initial investment?

CATL calculates that this would save up to 20% on the initial project investment. "9 MWh is not the upper limit for utility-scale BESS products," Zhao said. "Higher capacities, including double-digit MWh systems, are possible and will depend on customer demand."

What are the economic advantages of a 9 MWh system?

The new system offers significant economic advantages for large-scale deployments. At an 800 MWh site, for example, switching from a 6 MWh to a 9 MWh system would reduce the number of containers from 34 to 23, the number of PCS from 17 to 12, and the land area needed from 4653 m<sup>2</sup> to 2753 m<sup>2</sup>.

Can a 9 MWh system save money?

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