

# China southern power grid compressed air energy storage



## Overview

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China has officially operationalized the world's largest compressed air energy storage facility in Jiangsu province, marking a major technical milestone in the nation's push to stabilize its green energy grid. The compressed air is contained in abandoned salt mines in the Yingcheng area of Hubei, China's sixth most populous province. Construction on the project started on 18 December 2024, according to China state-owned news outlet CCTV. Its full name is the Huaneng Jintan Salt Cave. The Nengchu-1 plant in China sets records with 300 MW power, 1,500 MWh capacity, and 70% efficiency, advancing green energy storage solutions. With a capacity of 1,500 MWh and a power output of 300 MW, the Nengchu-1 Compressed Air Energy Storage (CAES) plant in China has claimed global leadership in.

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### [World's largest compressed air energy storage project breaks ground ...](#)

Once completed, the project will hold the title of the world's largest compressed air energy storage facility, integrating groundbreaking advancements in both power output and efficiency.

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### [China Developing World's Largest Compressed Air Energy Storage ...](#)

In April, the Huaneng Group completed a 300 MW/1500 MWh compressed air energy storage (CAES) project in Hubei, China, which took two years to build and cost \$270 million. The ...

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### [World's largest compressed air energy storage project opens](#)

The world's first non-supplementary fired compressed air energy storage power station is now sending electricity to the grid in China.

### [China: Work starts on 'world's largest' compressed air project](#)

Installation work has started on a compressed air energy storage project in Jiangsu, China, claimed to be the largest in the world of its kind. Construction on the project started on 18 ...



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### [China Energy Construction and Power Engineering Group Wins ...](#)

The compressed air energy storage system is configured with a 7-hour storage duration and 5-hour power generation capacity, with energy-to-energy conversion efficiency exceeding 70%. ...



### [Research Status and Development Trend of Compressed Air Energy ...](#)

By summarizing the current status of CAES technology, the working principles, challenges, and solutions of different CAES technologies are analyzed, which is provided for the ...



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