

# **Huawei East Timor Compressed Air Energy Storage Project**





## Overview

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Will China's first large-scale compressed air energy storage project be commercialized?

A state-backed consortium is constructing China's first large-scale compressed air energy storage (CAES) project using a fully artificial underground cavern, marking a major step in the technology's commercialization.

What is Xinyang air storage?

Designated as a pilot project under China's National Energy Administration's new energy storage initiative, the Xinyang facility pioneers an innovative air-sealing approach for artificial underground storage, offering a significant boost to the commercialization of CAES technology in China.

What is compressed air energy storage (CAES)?

ing energy utilization efficiency and ensuring power system security. Among these, compressed air energy storage (CAES) has emerged as a key large-scale storage solution du to its advantages in scalability, longevity, and cost-effectiveness. This paper analyzes the fundamental principles, t.

How is China energy storage building a CAES facility?

Construction involves precision blasting, structural reinforcement, concrete lining, and a sealed steel layer to withstand an operating pressure of 14MPa. The project is led by China Energy Storage's Henan subsidiary, which has previously developed multiple CAES facilities, including 100 MW, 150 MW, and 300 MW installations.



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A photo of the pressure-bearing spherical tanks at the "Nengchu-1" project. Photo: Courtesy of Dongfang Electric Corp The world's first 300-megawatt compressed air energy ...

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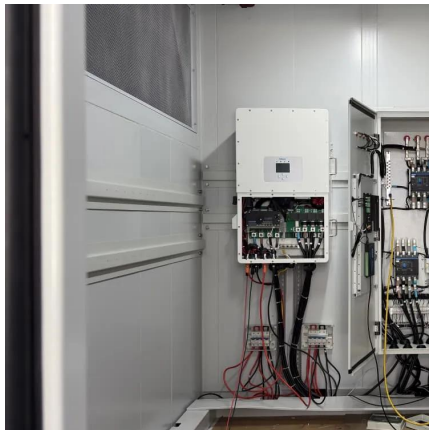




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