

# **Air Energy Storage Technology Project**





## Overview

---

What is a compressed air energy storage project?

A compressed air energy storage (CAES) project in Hubei, China, has come online, with 300MW/1,500MWh of capacity. The 5-hour duration project, called Hubei Yingchang, was built in two years with a total investment of CNY1.95 billion (US\$270 million) and uses abandoned salt mines in the Yingcheng area of Hubei, China's sixth-most populous province.

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)?

Compressed air energy storage (CAES) is an effective solution for balancing this mismatch and therefore is suitable for use in future electrical systems to achieve a high penetration of renewable energy generation.



## Air Energy Storage Technology Project

---



### [World's first 300 MW compressed air energy storage plant ...](#)

Jan 9, 2025 · 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 ...

### [China's innovative 1.2 GWh compressed air energy storage ...](#)

Feb 14, 2025 · 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 ...



### [Compressed air energy storage embraces large-scale ...](#)

Jul 30, 2024 · From 500-kilowatt experimental installations to 10 MW demonstration projects, 60 MW commercial operations, grid connection of 300 MW units, and the completion of feasibility ...



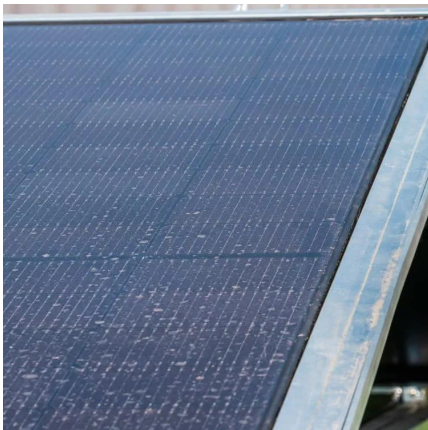
### [New compressed air energy storage technology proposed in ...](#)

Jun 27, 2025 · Researchers from North China Electric Power University have looked into methods for improving the efficiency of compressed air energy storage (CAES) systems, which are ...



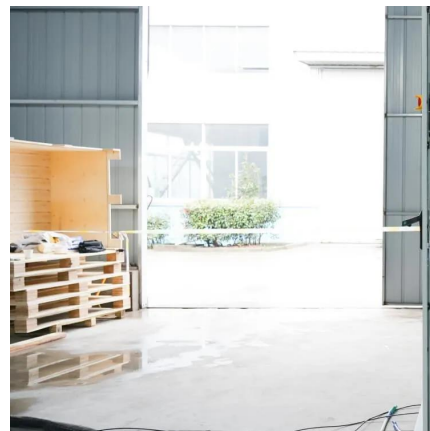
[China's innovative 300 MW compressed air energy storage project](#)

Feb 18, 2025 · A Chinese state-led consortium is developing a 300 MW/1200 MWh compressed air energy storage (CAES) project in Xinyang, Henan province, featuring an entirely artificial ...



[World's largest compressed air energy storage goes online ...](#)

Apr 10, 2024 · The project was built three to four times quicker than a pumped hydro energy storage (PHES) plant would need (6-8 years), China Energy Engineering added. CAES ...



[Advanced Compressed Air Energy Storage Systems: ...](#)

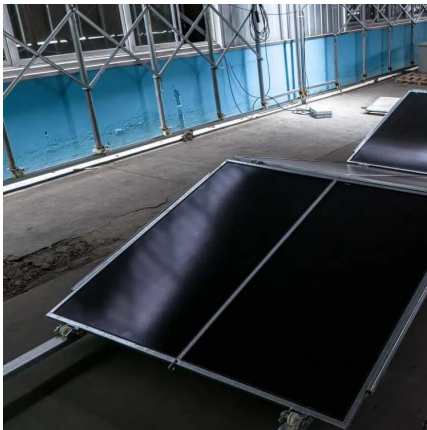
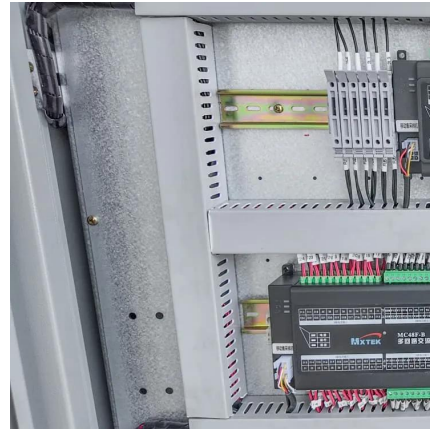
Mar 1, 2024 · Low-carbon generation technologies, such as solar and wind energy, can replace the CO<sub>2</sub>-emitting energy sources (coal and natural gas plants). As a sustainable engineering ...





### [China's innovative 1.2 GWh compressed air energy storage project](#)

Feb 14, 2025 · 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 ...



### **A comprehensive review of compressed air energy storage technologies**

Apr 25, 2025 · As the world transitions to decarbonized energy systems, emerging long-duration energy storage technologies are crucial for supporting the large-scale deployment of ...

## **Contact Us**

---

For catalog requests, pricing, or partnerships, please visit:  
<https://www.woodgoods.pl>

**Scan QR Code for More Information**



<https://www.woodgoods.pl>