

# **The largest air energy storage project**





## Overview

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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.

What is compressed air energy storage (CAES)?

The press conference was attended by nearly 200 industry leaders, experts, and media representatives, including: Compressed air energy storage (CAES) is a highly efficient large-scale energy storage technology that stores excess electricity by compressing air during off-peak hours and releases it to generate power during peak demand.

What is the energy storage industry white paper 2025?

The Energy Storage Industry White Paper 2025 reveals that global new energy storage installations reached 165.4 GW in 2024, with China contributing 43.7 GW of new capacity. Notably, compressed air energy storage (CAES) has emerged as the preferred grid-scale solution due to its long service life and superior safety characteristics.

Will China's energy storage capacity exceed 50 GW by 2030?

Industry projections indicate that China's compressed air energy storage capacity will exceed 50 GW by 2030, enabling annual CO<sub>2</sub> emission reductions of over 200 million tons - equivalent to shutting down 60 one-gigawatt coal-fired power plants - thereby providing robust support for building a new-type power system.



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World's first 300 MW compressed air energy ...

Jan 9, 2025 · A photo of the pressure-bearing spherical tanks at the "Nengchu-1" project.  
Photo: Courtesy of Dongfang Electric Corp The ...

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China Breaks Ground On World's Largest Compressed Air Ener

Dec 26, 2024 · China's Huaneng Group has achieved a major milestone in renewable energy innovation with the launch of phase two of its Jintan Salt Cavern Compressed Air Energy ...

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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 ...

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China Achieves Breakthrough in Core Energy Storage ...

Apr 26, 2025 · Compressed air energy storage has been included as a key development focus in China's 14th Five-Year Plan for new energy storage technologies, with multiple regions ...

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China Breaks Ground On World's Largest ...

Dec 26, 2024 · China's Huaneng Group has achieved a major milestone in renewable energy innovation with the launch of phase two of its Jintan ...

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World's First 300 MW Compressed Air Energy Storage

Jan 10, 2025 · The world's first 300 MW compressed air energy storage (CAES) demonstration project, "Nengchu-1," was fully connected to the grid in Yingcheng, central China's Hubei ...

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World's Largest Compressed Air Energy Storage Plant

Jan 14, 2025 · A Record-Breaking Innovation in Energy Storage With a capacity of 1,500 MWh and a power output of 300 MW, the Nengchu-1 Compressed Air Energy Storage (CAES) plant ...

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World's largest compressed air energy storage project ...

Dec 20, 2024 · Once completed, the Jintan project will hold the title of the world's largest compressed air energy storage facility, integrating groundbreaking advancements in both ...

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China unveils world's largest compressed air ...

Dec 24, 2024 · China breaks ground on world's largest compressed air energy storage facility  
The second phase of the Jintan project will feature ...

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World's Largest Compressed Air Energy ...

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China unveils world's largest compressed air energy storage ...

Dec 24, 2024 · China breaks ground on world's largest compressed air energy storage facility  
The second phase of the Jintan project will feature two 350 MW non-fuel supplementary CAES ...

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China Achieves Breakthrough in Core Energy ...

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World's largest compressed air energy ...

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World's largest compressed air energy ...

Jan 10, 2025 · A 300 MW compressed air energy storage (CAES) power station utilizing two underground salt caverns in central China's Hubei ...

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World's largest compressed air energy storage facility ...

Jan 10, 2025 · A 300 MW compressed air energy storage (CAES) power station utilizing two underground salt caverns in central China's Hubei Province was successfully connected to the ...

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World's largest compressed air energy storage goes online ...

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Energy Vault Project - China, Rudong

2 days ago · The 25 MW/100 MWh EVx(TM) Gravity Energy Storage System (GESS) is a 4-hour duration project being ...

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Energy Vault Project - China, Rudong

2 days ago · The 25 MW/100 MWh EVx(TM) Gravity Energy Storage System (GESS) is a 4-hour duration project being built outside of Shanghai in Rudong, Jiangsu Province, China. The ...

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