

Wind and solar energy storage power station under construction





Overview

Why is China building pumped-storage hydropower facilities?

China is building pumped-storage hydropower facilities to increase the flexibility of the power grid and accommodate growing wind and solar power. As of May 2023, China had 50 gigawatts (GW) of operational pumped-storage capacity, 30% of global capacity and more than any other country.

What is a pumped-storage plant?

Pumped-storage plants can store the excess wind and solar generation for later use. This supply management helps offset the variability in solar and wind. This flexibility is particularly important in China, which has a large and growing share of wind and solar power in its generation mix.

What is CTG's floating PV project?

The project, located south of Fuyang city in China's Anhui Province, has an installed capacity of 1.2 GW. It adopts a new power development model that combines wind power, solar power, and mining subsidence area treatment. CTG has implemented its floating PV technology on a lake formed from a former mine that collapsed beneath the surface.

Why is wind and solar power important in China?

This flexibility is particularly important in China, which has a large and growing share of wind and solar power in its generation mix. In 2021, wind and solar combined generated 12% of China's electricity, according to our International Energy Statistics.



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[China Expands RE with New Wind, Solar, and Storage Projects](#)

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[China building more pumped-storage power stations to ...](#)

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[Anhui Fuyang South solar-and-wind-plus-storage base project](#)

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China Accelerates Development of Pumped-Storage Power Stations ...

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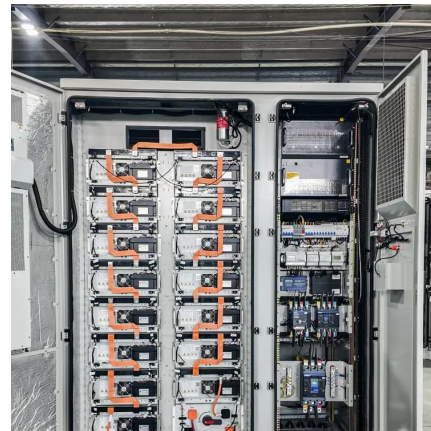
CHN Energy's 1 GW Wind-PV-Storage Project in Qinghai Starts Construction

Jul 18, 2024 · Located in the Qaidam Basin, the Qinghai Dachaidan 1 GW Wind-PV-Storage Project is part of the second batch of national large-scale key wind and solar base projects. It ...



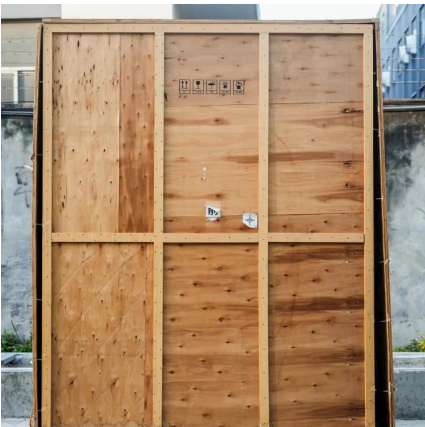
Hydro, wind, and solar power in synergy: Qinghai Warang Pumped Storage

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Energy Insider: Wind and Solar Generation Breaks Record, Hybrid Energy

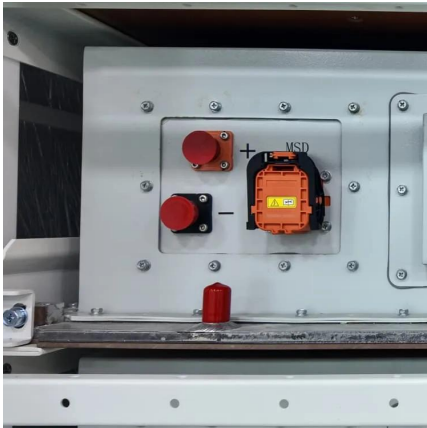
May 27, 2025 · In this week's Caixin energy wrap, we analyze China's biggest climate and energy news on policy, industry, projects and more: o Wind and solar break output record o Hybrid ...





[China's First Grid-Forming Wind-Solar-Storage Integrated ...](#)

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[China powers up nation's largest standalone battery storage ...](#)

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