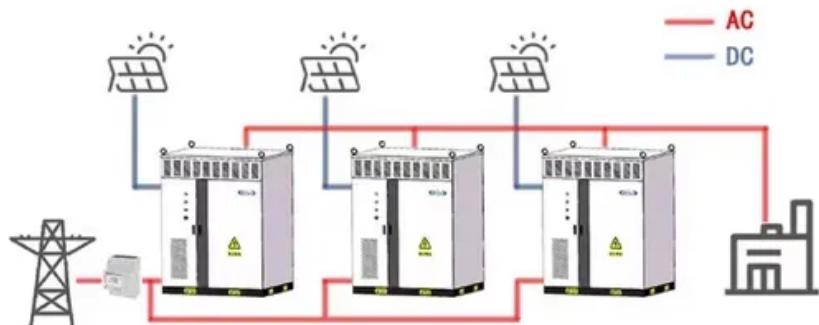


# Introduction to Asian Wind and Solar Energy Storage Power Plants

## WORKING PRINCIPLE



## Overview

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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.

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.

Where is national wind & solar energy storage & transmission demonstration project located?

demand, which calls for effective allocation of the resources. National Wind and Solar Energy Storage and Transmission Demonstration Project is located in Bashang area within the territory of Zhangbei County and Shangyi County, Zhangjiakou, Hebei Province. It's 20km from Zhangbei County, about 50km from Zhangjiakou and around 200km from Beijing.

What percentage of China's Electricity is generated by wind and solar?

In 2021, wind and solar combined generated 12% of China's electricity, according to our International Energy Statistics. As wind and solar play an increasingly significant role in China's electricity mix, the surplus energy generated will need to be stored.

Will wind and solar power be curtailed in China?

As wind and solar play an increasingly significant role in China's electricity mix, the surplus energy generated will need to be stored. Otherwise, it will have to be curtailed, meaning some of the wind and solar power will not be

used.

How can large wind integration support a stable and cost-effective transformation?

To sustain a stable and cost-effective transformation, large wind integration needs advanced control and energy storage technology. In recent years, hybrid energy sources with components including wind, solar, and energy storage systems have gained popularity.

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