

## SolarTech Power Solutions

# Construction of the largest hybrid energy storage power station begins

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48.0V or 51.2V**



## Overview

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On December 29th, 2022, the SDIC Group Yalong River Lianghekou Hybrid Pumped Storage Project, the largest of its kind in the world, officially started construction in Sichuan province. How many MW will a 'hybrid power station' have?

The thermal power component will comprise 27MW of gas generation and 5MW of diesel standby generation. "Once fully constructed, the hybrid power station is currently expected to have the largest off-grid renewable capacity — 46MW wind and solar plus 17MW battery energy storage system — of any mining project in Australia," the company said.

What is the largest grid-forming energy storage station in China?

This marks the completion and operation of the largest grid-forming energy storage station in China. The photo shows the energy storage station supporting the Ningdong Composite Photovoltaic Base Project. This energy storage station is one of the first batch of projects supporting the 100 GW large-scale wind and photovoltaic bases nationwide.

What are hybrid power systems with energy storage?

Hybrid Power Systems with energy storage are a new and attractive way of reducing both fuel consumption and exhaust emissions. These systems utilise the latest wireless charging technology and offer total electrical plug-in solutions and completely integrated vessel design concepts.

What is Ningxia power's energy storage station?

On March 31, the second phase of the 100 MW/200 MWh energy storage station, a supporting project of the Ningxia Power's East Ningxia Composite Photovoltaic Base Project under CHN Energy, was successfully connected to the grid. This marks the completion and operation of the largest grid-forming energy storage station in China.

What is CHN energy's new photovoltaic base project?

It was constructed in conjunction with the CHN Energy's East Ningxia 1.5 GW Composite Photovoltaic Base Project, with a planned total capacity of 200 MW/400 MWh.

What will be done to support grid-forming energy storage?

Going forward, various tests and performance experiments will be carried out to provide data support for the testing and standard setting of grid-forming energy storage.

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