

## A-Core Container

# China installs solar thermal equipment with pressurized solar energy storage cabinet



## Overview

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A 100MW thermal solar and molten salt energy storage system in Xinjiang, China, is set to be completed and grid-connected by the end of the year, part of a project which has also deployed conventional solar PV. What is China's first solar and thermal energy storage project?

China's State Grid Turfan Power Supply Co., a subsidiary of State Grid Corp. of China, said it has completed the first phase of a major solar and thermal energy storage project. The CNY 6 billion (\$843 million) installation in Sanshan Qiketai, Turpan, Xinjiang, integrates PV and solar thermal salt energy storage technology.

Does China need thermal energy storage?

China required from the first demonstration phase that each CSP project must include thermal energy storage, marking the first recognition globally of the value of the low cost and longevity of thermal energy storage. As a power station storing solar energy thermally, CSP operates like a gas plant to supply grid services like rolling reserves.

How much does Xinjiang's solar project cost?

The CNY 6 billion (\$843 million) installation in Sanshan Qiketai, Turpan, Xinjiang, integrates PV and solar thermal salt energy storage technology. The 1 GW project includes 900 MW of solar capacity, a 100 MW solar thermal system, and two 220 kV booster stations.

Where is a 100MW solar system being built?

The project in Turpan, Xinjiang, China. Image: Lan Shengwen, a reporter from Gaochang District Media Center. A 100MW thermal solar and molten salt energy storage system in Xinjiang, China, is set to be completed and grid-connected by the end of the year, part of a project which has also deployed conventional solar PV.

Will a 1 GW hybrid solar-thermal energy storage project generate a GWh?

State Grid Turpan Power Supply Co. says it has completed the first phase of a 1 GW hybrid solar-thermal energy storage project in western China. It is set to generate more than 2,000 GWh per year.

Is Turfan a 'solar thermal energy storage & photovoltaic integration' project?

The first phase of the 1GW 'solar thermal energy storage + photovoltaic integration' project in Turfan, Xinjiang, has been completed, according to announcements from the State Grid Turfan Power Supply Company on PR Newswire and state-owned outlet Turfan Media Center.

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