

Construction plan for wind solar and power storage base





Overview

How many kW of solar power will be installed at the base?

The clean energy projects at the base are planned to have an installed capacity of 6 million kW, which includes 4.5 million kW of wind power and 1.5 million kW of solar power. Construction of the supporting energy storage facilities is also included.

What is the capacity planning model for wind-photovoltaic-pumped hydro storage energy base?

A two-layer capacity planning model for wind-photovoltaic-pumped hydro storage energy base. Three operational modes are introduced in the inner-layer optimization model. Constraints of pumped hydro storage and ultra-high voltage direct current lines are considered.

What is a 1 million kilowatt wind-solar power project?

A view of the 1 million-kilowatt wind-solar power project in Qingyang, Northwest China's Gansu Province, the first project to enter service at the Huaneng Longdong Energy Base, the country's first 10-million-kilowatt multi-energy complementary comprehensive energy base [Photo/sasac.gov.cn].

How will China's new power base work?

All projects at the base are scheduled to be put into operation within China's 14th Five-Year Plan (2021-25) period. Once operational, the base is expected to export 24 billion kWh of power annually to East China's Shandong Province through the ultra-high-voltage power transmission line.



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