

A-Core Container

Outdoor high-precision wind power base station



Overview

Will China build a wind and solar power base in 2022?

According to a plan issued by the National Development and Reform Commission (NDRC) and the NEA in 2022, China will build wind and solar power bases with an installed capacity of 455 million kilowatts by 2030. China's southwest can support both hydro and wind power due to its varied landscape, comprising rivers and mountains.

Can a high-precision geographic scale be used to assess wind energy resources?

Assessments at the high-precision geographic scale of 1 km are not widely utilized, but some researchers have conducted preliminary assessments of wind energy resources in China.

Can China support hydro and wind power?

China's southwest can support both hydro and wind power due to its varied landscape, comprising rivers and mountains. An 800-megawatt wind power plant was connected to the grid in early May in Qujing City, Yunnan Province, marking the country's largest installed wind farm built on the plateau.

What is a pumped hydro storage station (PHS)?

Pumped hydro storage station: The planning of the PHS has been completed, with an installed capacity of 9100 MW. It is a daily regulation PHS. The basic parameters are shown in Table 1. Due to its large installed capacity, this PHS can serve as a peak-shaving power source to meet the daily load peak-valley difference.

Where is the world's largest hydro-solar power station located?

This year, the institute will also complete the construction of the world's largest and highest-altitude hydro-solar complementary power station, the Korla Phase I photovoltaic power station in Northwest China's Xinjiang Uygur

Autonomous Region.

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.

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