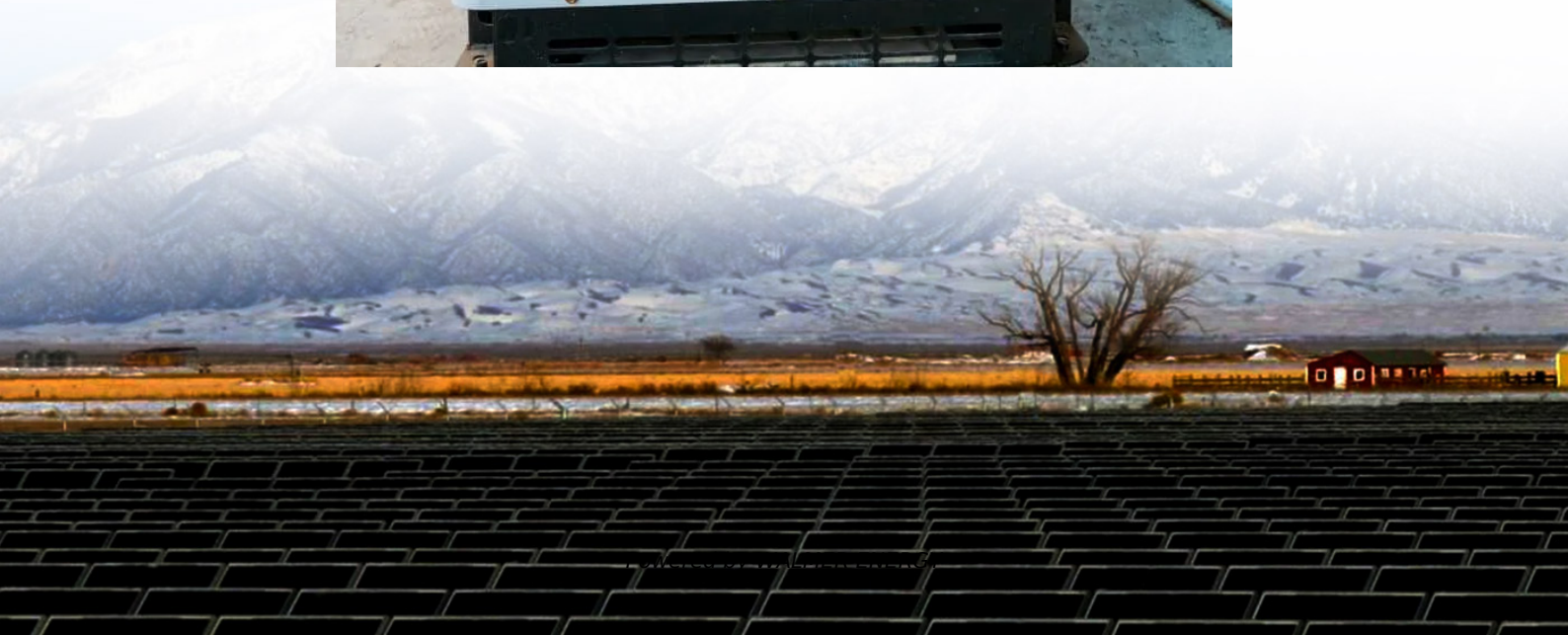


Hybrid power station development





Overview

What are the three hybrid power generation systems?

The three hybrid power generation systems respectively are the hydropower-wind-PV hybrid system (HWPHS), the hydropower-wind-PV hybrid system including pump stations (HWPPHS), and the hydropower-wind-PV hybrid system including reversible hydro units (HWPRPHS).

What is China's largest hybrid solar power plant?

China is a global leader in developing renewable energy, and the Kela photovoltaic (PV) power station is adding to the country's energy mix as the world's largest hybrid solar-hydropower plant. The Kela station idea was formed by the Design and Research Institute of Power China Chengdu in 2016.

What are the multi-energy complementary operation models of hydropower-wind-PV hybrid system?

Next, based on different utilization principles of wind power and photovoltaic, the multi-energy complementary operation models of the hydropower-wind-PV hybrid system, the hydropower-wind-PV hybrid system including pump stations, and the hydropower-wind-PV hybrid system including reversible hydro units are established.

Can pumped storage power stations support a high-quality power supply?

Hence, to support the high-quality power supply, this research explores the complementary characteristics of the clean energy base building different types of pumped storage power stations, and recognizes the efficient operation intervals of the giant cascade reservoir.



Hybrid power station development

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