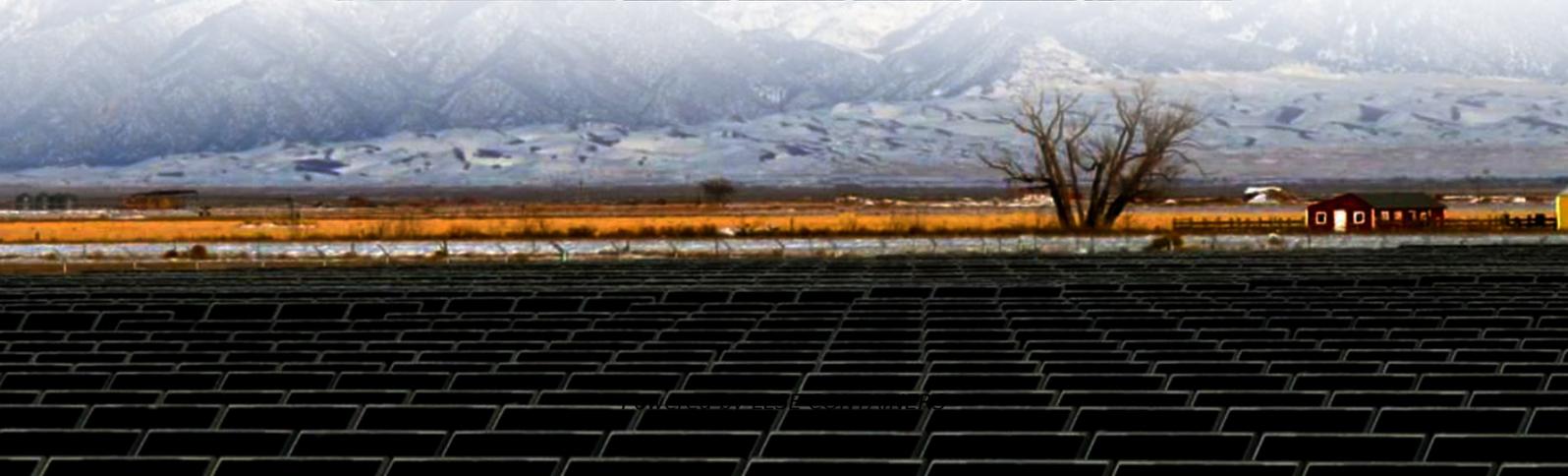


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Overview

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.

Are WP and PV resources suitable for capacity planning?

WP and PV resources: The data used in this study are based on the wind and solar output projections for a designated planning baseline year in the study area. This selection ensures that the data capture typical operational conditions over an extended period, making them suitable for capacity planning in a long-term context.

Can wind power and photovoltaic power be integrated into the grid?

However, the integration of wind power (WP) and photovoltaic (PV) into the grid poses challenges in balancing generation with hydropower flexibility to ensure stable and efficient power systems .

What is capacity planning for wind-solar-hydro systems?

Recent research on capacity planning for wind-solar-hydro (PHS) systems has primarily centered on designing mathematical models and optimization methods that accommodate renewable energy uncertainties and enhance system flexibility.



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