



# Planning and design of wind-solar complementary power generation for Ngerulmud solar container communication station

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Abstract: This paper proposes constructing a multi-energy complementary power generation system integrating hydropower, wind, and solar energy. Considering capacity configuration and optimization ...

This paper selects a multi-energy complementary generation system composed of a hydropower station and surrounding wind and solar resources in the southwestern region for case ...

The intermittency, randomness and volatility of wind power and photovoltaic power generation bring trouble to power system planning. The capacity configuration.

The research results of this project will provide an effective way to efficiently utilize wind energy and wind energy resources in distributed photovoltaic power stations.

Against the backdrop of evolving power systems and the increasing integration of wind, solar, thermal, and storage technologies, scientifically optimizing the configuration of multi-energy ...

Although renewable energies such as wind and solar are intermittent, coupling solar power with wind power can attain a complementary effect. During the daytime, when the sunlight is strong, the wind is ...



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Based on the law of energy conservation, the energetic matching algorithm was proposed which forms the foundation of optimal configuration of system. Finally, the intelligent control and on-line ...

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