

2 Carrier frequency outdoor fixed solar container communication station wind and solar complementarity





Overview

This large-capacity, modular outdoor base station seamlessly integrates photovoltaic, wind power, and energy storage to provide a stable DC48V power supply and optical distribution. Should solar energy storage be supported in photovoltaic systems?

Increasing support for energy storage deployment in photovoltaic systems and regions with abundant wind and solar resources (such as Xinjiang, Inner Mongolia, Qinghai, etc.) can significantly enhance the stability and reliability of wind and solar power supply.

Does cross-regional interconnection improve the stability of wind power output?

Cross-regional interconnection of wind power can significantly improve the stability of wind power output, and the maximum reduction rate of annual standard deviation of wind power output reaches 47 %. Solar power interconnection produces a relatively uniform distribution of increased and decreased output fluctuations.

Does spatial and temporal complementarity of wind and solar power match electricity demand?

Therefore, analyzing the spatial and temporal complementarity of wind and solar power and their matching characteristics with electricity demand is of great significance for constructing reliable and cost-effective high-proportion renewable energy systems.

Do wind and solar power outputs in China have a temporal complementarity?

Overall, wind and solar power outputs in various provinces of China exhibit strong temporal complementarity. Although there is no negative correlation in Tibet, Yunnan, and Sichuan, wind-solar power joint output can smooth the fluctuations of solar or wind power outputs.



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