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Yijian solar container communication station Wind and Solar Complementarity

Overview

How can wind power from Fujian and Xinjiang be interconnected?

The wind power from Fujian or Xinjiang can be interconnected with other provinces to reduce the wind power output fluctuations of those provinces, and the maximum standard deviation reduction rate of the wind power output can be achieved by interconnecting with Fujian or Xinjiang.

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.

Are wind-wind power and solar-solar power spatial complementarity related?

The correlation and fluctuation index results of wind-wind power and solar-solar power spatial complementarity between different provinces in summer. (a) and (b) are Kendall’s correlation coefficients of wind-wind power spatial complementarity and solar-solar power spatial complementarity, respectively.

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.

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