

Xiaoli has a solar container communication station with wind and solar complementarity





Overview

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.

Does wind-solar power joint output improve time complementarity?

Correlation and fluctuation measurement methods are incorporated. Multi-perspective assessments from annual and seasonal scales are conducted. Wind and solar power output exhibit relatively strong time complementarity. Wind-solar power joint output improves the power supply-demand matching degree.

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 wind-solar power joint output affect solar power output?

Wind-solar power joint output plays a more significant role in smoothing the fluctuations of solar power output, and the negative correlation between wind and solar power output and the smoothing effect of wind-solar power joint output on solar power output is more pronounced in summer.



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