

Trend of wind and solar complementarity in solar container communication stations





Overview

Is there a correlation between wind and solar energy in China?

By calculating the Kendall rank correlation coefficient between wind and solar energy in China, the study mapped the spatial distribution of wind-solar energy complementarity. Han et al. proposed a complementary evaluation framework for wind-solar-hydro multi-energy systems based on multi-criteria assessment and K-means clustering algorithms.

Are wind and solar energy complementary?

Given that wind and solar energy are distinct forms of energy within the same physical field and are typically developed simultaneously in clean energy bases, it is essential to comprehensively assess the variation patterns of complementarity metrics under different climate change scenarios.

Does complementarity support integration of wind and solar resources?

Monforti et al. assessed the complementarity between wind and solar resources in Italy through Pearson correlation analysis and found that their complementarity can favourably support their integration into the energy system. Jurasz et al. simulated the operation of wind-solar HES for 86 locations in Poland.

Is there complementarity between wind and solar resources in China?

Compared with the literature , that used Kendall Tau correlation coefficients to assess the complementarity between wind and solar resources in China based on the observation data from 289 meteorological stations, the similarly spatial distribution of the complementarity is expressed in this study.



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At the hourly scale, the complementarity of wind energy and solar energy shows an increasing trend from east to west, with Qinghai, Yunnan and Xinjiang exhibiting the most pronounced ...

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The wind and solar complementarity of communication base stations

Which regions exhibit greater complementarity of wind and solar energy? For instance, Ren et al. employed an evaluation index considering the fluctuation state and corresponding amplitude to ...

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