

Is there a complementarity between wind and solar energy? Studying the complementarity between wind and solar energy is crucial for optimizing the use of these renewable resources. Multi-energy compensation systems need to consider multiple metrics, and current research relies on the correlation of single metrics to study this complementarity. 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. Do wind and solar resources have a complementarity metric system? To this end, we propose a novel variation-based complementarity metrics system based on the description of series' fluctuation characteristics from quantitative and contoured dimensions. From this, the complementarity between wind and solar resources in China is assessed, and the trend and persistence are tested. How do we evaluate the complementarity of wind and solar resources? Previous studies have primarily used the Pearson correlation coefficient (CC) and similar metrics to evaluate the complementarity of wind and solar resources. For instance, Che et al. directly calculated Pearson CC to analyze the complementarity between wind and solar power and between wind and hydropower. Are wind and solar resources complementary? Kapica et al. employed Kendall's correlation coefficient to develop an atlas of the global complementarity between wind and solar resources. On the basis of correlation theory, when the time series of wind and solar resource show a strong negative correlation, they would be considered to be highly complementary. 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. A copula-based wind-solar complementarity coefficient: Mar 1, &nbsp;&#x2013;&nbsp;&#x2013; Multi-energy compensation systems need to consider multiple metrics, and current research relies on the correlation of single metrics to study this complementarity. A measure of Communication base station wind and solar complementary communication The wind-solar-diesel hybrid power supply system of the communication base station is composed of a wind turbine, a solar cell module, an integrated controller for hybrid energy Optimal Configuration and Empirical Analysis of a Wind-Solar Jul 29, &nbsp;&#x2013;&nbsp;&#x2013; This paper develops a capacity optimization model for a wind-solar-hydro-storage multi-energy complementary system. The objectives are to improve net system income, Matching Optimization of Wind-Solar Complementary Power Sep 23, &nbsp;&#x2013;&nbsp;&#x2013; The intermittency, randomness and volatility of wind power and photovoltaic power generation bring trouble to power system planning. The capacity configuration An in-depth study of the principles and technologies of wind-solar Jul 26, &nbsp;&#x2013;&nbsp;&#x2013; Wind-solar hybrid systems, renewable energy technologies that combine wind and solar energy, are particularly important because they improve the stability and efficiency of Complementarity assessment of wind-solar Jul 10, &nbsp;&#x2013;&nbsp;&#x2013; Here, the complementary

