

The wind and solar complementary solar container communication stations are preferably built in





Overview

What is a wind-solar-hydro-thermal-storage multi-source complementary power system?

Figure 1 shows the structure of a wind-solar-hydro-thermal-storage multi-source complementary power system, which is composed of conventional units (thermal power units, hydropower units, etc.), new energy units (photovoltaic power plants, wind farms, etc.), energy storage systems, and loads.

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.

Where is the complementarity of wind and solar resources in China?

It can be seen from the spatial distribution that wind and solar resource complementarity is relatively high in northwest, northeast, and central China, while the complementarity in the southwest and southern areas of China is relatively low.

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.



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With the increasing demand for communication services, major operators have launched fierce market competition, and one of them is to enlarge the number of communication base stations. ...

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Variation-based complementarity assessment between wind and solar

From this, the complementarity between wind and solar resources in China is assessed, and the trend and persistence are tested. Furthermore, the spatial compatibility ...

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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

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