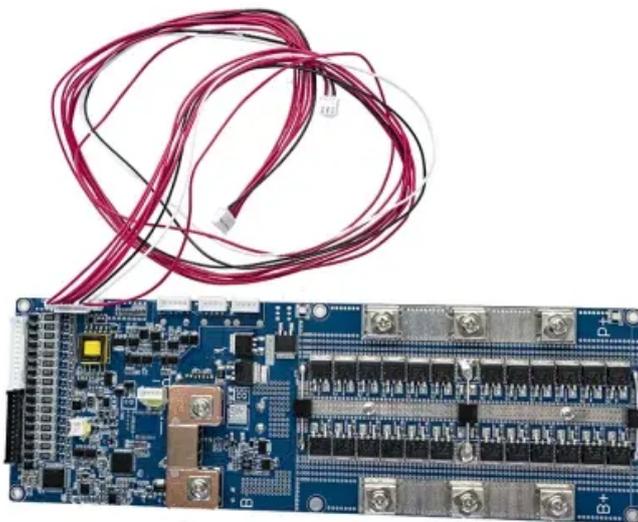


SolarTech Power Solutions

Regulations on the location of wind and solar complementary communication base stations



Overview

What is the complementary coefficient between wind power stations and photovoltaic stations?

Utilizing the clustering outcomes, we computed the complementary coefficient R between the wind speed of wind power stations and the radiation of photovoltaic stations, resulting in the following complementary coefficient matrix (Fig. 17.).

Which cluster of wind power stations exhibit the weakest complementarity with radiation?

Analysis of the matrix reveals that the 4th, 5th, 7th, and 8th clusters of wind power stations exhibit the weakest complementarity with the radiation of photovoltaic stations. In contrast, the 5th, 7th, 8th, and 10th clusters of photovoltaic stations similarly demonstrate poor complementarity with the wind speed of wind power stations.

Can wind-solar-hydro complementarity improve China's future power system stability?

Wind-solar-hydro complementary potential shows great temporal and spatial variation. Renewable complementarity can improve China's future power system stability. In the context of carbon neutrality, renewable energy, especially wind power, solar PV and hydropower, will become the most important power sources in the future low-carbon power system.

Does wind-solar complementarity occur in low-elevation plains?

Stronger wind-solar complementarity occurs in low-elevation plains. Studying the complementarity between wind and solar energy is crucial for optimizing the use of these renewable resources.

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.

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