BUHLE POWER

How many solar container communication stations in China have wind and solar complementary technologies

Overview

Are wind and solar energy resources complementary in China?

The results reveal that wind energy and solar energy resources in China undergo large interannual fluctuations and show significant spatial heterogeneity. At the same time, according to the complementarity of wind and solar resources, over half of China’s regions are suitable for the complementary development of resources.

Are weather stations suitable for complementarity of wind and solar energy resources?

In China, 54.29% of the weather stations have good complementarity of wind- and solar-energy resources on the interannual scale, but 45.71% of the weather stations are not suitable for complementary development of wind- and solar-energy resources on the interannual time scale.

Does China have a potential for hydro-wind-solar complementary development?

China has made considerable efforts with respect to hydro- wind-solar complementary development. It has abundant resources of hydropower, wind power, and solar power and shows promising potential for future development.

Do wind- and solar-energy resources in China have a temporal complementarity?

Based on the China Surface Climate Data Dataset V3.0, we analyze herein the spatial and temporal distribution in wind- and solar-energy resources in China and evaluate via the Spearman coefficient the temporal complementarity of wind- and solar-energy resources in China.

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