How high is the wind and solar complementarity of China s solar container communication stations

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.

What is the spatial distribution of wind and solar resources in China? Therefore, the spatial distribution of wind and solar resources in China is basically consistent with their complementarity, which is beneficial to the development of wind and solar power and the construction of the new power system.

Which regions in China have a strong complementarity with wind and solar resources? Generally, the wind and solar resources in China have a gratifying complementarity. Moreover, the regions rich in wind and solar resources usually show this strong complementarity, such as Qinghai, Gansu, Ningxia, Inner Mongolia, Xinjiang, western Jilin, and western Heilongjiang.

Reference [1] reviewed the research progress of multi-energy complementary systems based on solar energy, analyzing the complementarity of solar- wind, solar-hydro, and solar-biomass

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2/3

Page 3/3

