Gis solar container communication station wind and solar complementary distribution

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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.

Why is GIS important for assessing and planning regional power systems?
This capability of GIS is relevant for assessing and planning regional power systems with high penetration of VRES such as wind and solar because of their spatiotemporal variability,.

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.

What is the spatial distribution of wind energy resources?
The spatial distribution of these two resources also varies significantly. The greatest spatial variations in the distribution of wind-energy resources are in Hainan Island and Shandong Peninsula,and the distribution of solar-energy resources varies most significantly in southern Tibet.

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