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Construction plan for wind and solar complementary base stations of three-network communication





Overview

Are wind power and solar PV power potential complementary?

The assessment results of temporal volatility of wind power and solar PV power potential in different regions of China show that they can be well complementary at different time scales.

Does wind power and solar PV have a decarbonization pathway?

Since wind power and solar PV are specifically intermittent and space-heterogeneity, an assessment of renewable energy potential considering the variability of wind power and solar PV with high temporal resolution in different regions will facilitate more accurate identification of the decarbonization pathway of power system.

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.

Do water-solar-wind complementary systems work in hydropower stations?

For example, (Zhu et al., 2017) studied the operation of water-solar-wind complementary systems in typical hydropower stations in the upper reaches of the Jinsha River but did not consider constraints such as land use and investment costs.



Construction plan for wind and solar complementary base stations



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energy to improve the overall energy utilization

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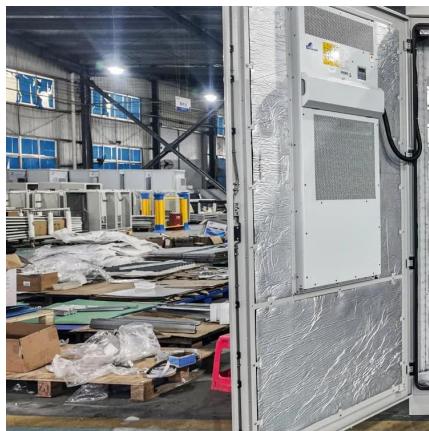
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