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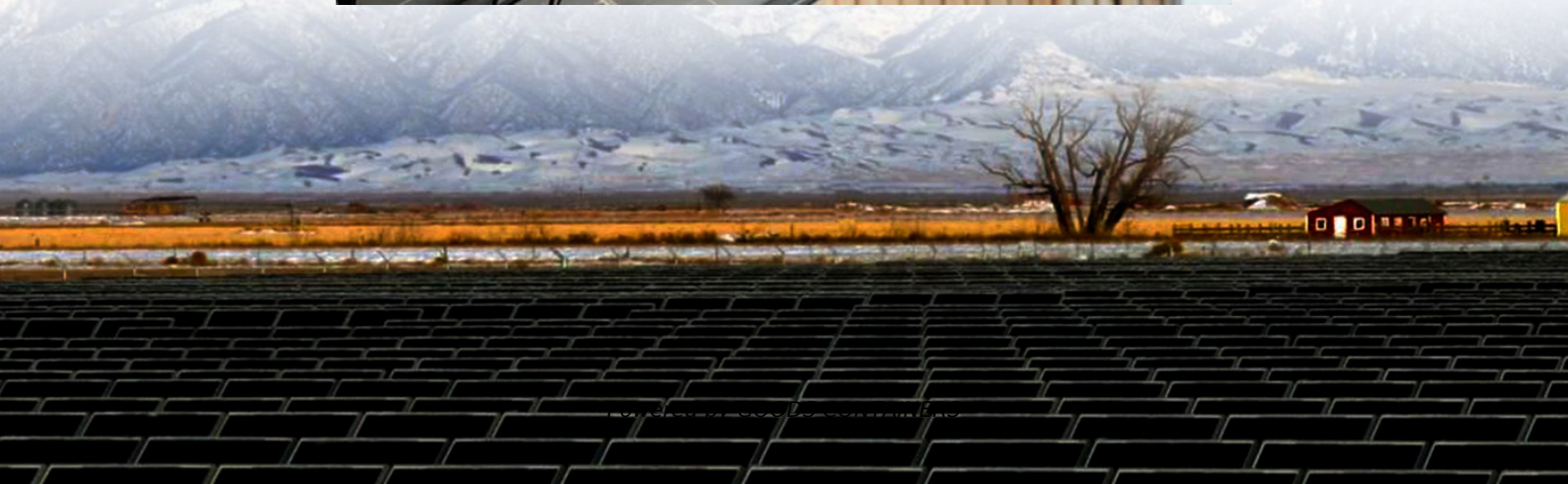
Construction of wind and solar complementary network base stations in China



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Overview

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. Since wind pow.

Will China build a wind and solar power base in 2022?

According to a plan issued by the National Development and Reform Commission (NDRC) and the NEA in 2022, China will build wind and solar power bases with an installed capacity of 455 million kilowatts by 2030. China's southwest can support both hydro and wind power due to its varied landscape, comprising rivers and mountains.

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.

How will China's new power base work?

All projects at the base are scheduled to be put into operation within China's 14th Five-Year Plan (2021-25) period. Once operational, the base is expected to export 24 billion kWh of power annually to East China’s Shandong Province through the ultra-high-voltage power transmission line.

Where is China's first wind-solar power project located?

The 1 million-kilowatt wind-solar power project in Qingyang, Northwest China's Gansu Province, started operation as the first 4.05-megawatt wind turbine began to run on Dec 21. It was the first project to begin service at the Huaneng Longdong Energy Base, the country's first 10-million-kW multi-energy complementary comprehensive energy base.

Construction of wind and solar complementary network base station

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[Massive wind and solar power project in Gansu begins ...]

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[Projects at China's 1st 10 Million KW Multi-Energy Complementary]

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