

# Solar power station in the desert

Can a photovoltaic power station be built in the desert?

“Building a photovoltaic power station in the desert is not easy, and requirement for solar equipment is higher due to the windy and sandy environment in the desert,” Miao Ruijun, deputy head of Mengxi New Energy Dalad Photovoltaic Power Station in SPIC Nei Mongol Energy Co, told the Global Times at the site on Saturday.

How to manage a solar power station in the desert?

Miao noted that to better manage running of the station in the desert environment and save personnel needed onsite, it has adopted smart PV solutions provided by Huawei Technologies, including solar inverters, power carrier communication (PLC), intelligent IV diagnosis, as well as intelligent photovoltaic management system.

Which Desert has the largest area of PV power stations?

In 2018, MUSH had the largest area of PV power stations (30.80 km<sup>2</sup>, 30.0%), followed by TenD (29.50 km<sup>2</sup>, 28.8%), UBD (11.33 km<sup>2</sup>, 11.0%) and HobD (8.14 km<sup>2</sup>, 8.0%). Compared with other deserts, these four deserts are located in the central part of north China, and the surrounding areas have a higher level of economic development.

Does PV power station deployment promote desert greening in China?

In general, the desert greening (with a significant increase in vegetation) in China from PV power station deployment is largely promoted by the policy-driven Photovoltaic Desert Control Projects. However, the human activities effects on vegetation are often superimposed on the long-term climate-driven variations.

By the end of November 2022, the Junma Solar Power Station had generated a total of 2.543 billion kWh of green electricity, which is equivalent to saving 840,000 tons of coal and reducing 2.03 million ...

Thanks to the relatively low cost of land use for solar energy and high power generation potential, a large number of photovoltaic (PV) power stations have been established in desert areas ...

Once a coal mining site, the Otog Front Banner, Ordos in Inner Mongolia is now home to the Mengxi Blue Ocean Photovoltaic Power Station, China's largest single-capacity solar power plant.

Strolling around the Junma Solar Power Station located in the Kubuqi Desert in Ordos, North China's Inner Mongolia Autonomous Region, it's hard for visitors to imagine that the area, now...

NASA satellite images reveal China's ambitious "solar great wall" project in the Kubuqi Desert, a massive initiative aimed at generating 100 gigawatts of power by 2030. This renewable ...

Right in the middle of China's Kubuqi Desert—often described as a "sea of death" against its strong gales of sand—vast and barren, a gigantic solar farm has been converting sunlight into clean ...

HOHHOT, Jan. 16 -- Deep in the Kubuqi desert in north China's Inner Mongolia Autonomous Region, rows



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of blue solar panels glisten under the winter sun, converting sunlight into ...

In essence, desert solar power stations serve as a cornerstone of renewable energy strategies in numerous arid regions around the globe. These installations capitalize on abundant ...

The Junma solar power station -- &quot;Junma&quot; meaning &quot;fine horse&quot; in Chinese -- is part of an ambitious desert reclamation project known as the &quot;great photovoltaic wall,&quot; stretching along the ...

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