

Can solar power be used to control desertification

Can solar power help combat desertification?

Opportunity to combat desertification and improve people's welfare in arid areas. Solar photovoltaic (PV) panels and the vegetation under them consist of a combined system that could provide not only clean electrical power but also an effective preventive measure against wind erosion in sandy ecosystems.

Can a desert be used for solar energy?

Our reporter Ning Hong visited one such place, which uses a model to sustainably integrate desert control, energy, and agriculture. Abundant sunlight makes the desert an ideal location for solar energy generation. This 200,000-kilowatt solar power plant was built in 2016 in the Kubuqi Desert, in China's Inner Mongolia Autonomous Region.

Can solar power control desertification in China?

In recent years, the Chinese government has carried out a series of Photovoltaic Desert Control Projects, aiming to combine the efforts to develop the solar PV sector with measures to control desertification (CGTN, 2017; The state council of the P.R.C., 2019; Cui et al., 2017).

Can solar PV power plants be installed in deserts?

Desertification leaves less genuinely usable space for agriculture and living for most of mankind. Due to this development, thinking about efficient ways to use otherwise mostly deserted space comes into mind - one of which is the installation of solar PV power plants in deserts.

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.

Do PV power stations reduce desertification?

This study shows the great benefits of PV power stations in combating desertification and improving people's welfare, which bring sustainable economic, ecological and social prosperity in sandy ecosystems. Zilong Xia: Conceptualization, Methodology, Writing - original draft, Visualization. Yingjie Li: Conceptualization, Writing - review & editing.

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