

Photovoltaic panels at Donggou Police Station

How many ground-mounted PV power stations are there in China?

According to our dataset, China has a total of 2467.7 km² ground-mounted PV power stations in 2020. The top three largest provinces refer to Xinjiang, Inner Mongolia and Qinghai, whose PV area ratio are 14.92%, 12.49% and 11.26%, respectively, with a total of nearly 40% of all the PV power stations of China.

Where are PV power stations located in China?

Results show that PV power stations in China's 12 biggest deserts expanded from 0 to 102.56 km² from 2011 to 2018, mainly distributed in the central part of north China. The desert vegetation in the deployment area of PV power stations presented a significant greening trend.

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.

Can PV power stations be deployed in desert areas?

The deployment sites of PV power stations in desert areas can be divided into: vegetation-covered areas and non-vegetation-covered areas. Before the PV power stations deployment, the soils usually need to be graded, resulting in vegetation removal (Hernandez et al., 2014). Fig.

Does China have a spatial map of PV power stations?

Although some researchers released several PV power station maps, most only met a medium resolution of 30 meters. There thus still lacks a national map of China's PV power stations with a higher spatial resolution (i.e., 10 meters) that could provide a global understanding of PV's spatial deployment patterns.

Are PV power stations booming in China?

China has vast desert areas, mainly located in the northern arid and semi-arid regions (SFA, 2011). In these areas, where ecosystems are very fragile, PV power stations are booming (Wu et al., 2014a).

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In the photovoltaic (PV) solar power plant projects, PV solar panel (SP) support structure is one of the main elements and limited numerical studies exist on PVSP ground ...

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