

What are the power base stations in China's deserts





Overview

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.

Which Desert has the largest area of PV power stations?

In 2018, MUS had the largest area of PV power stations (30.80 km², 30.0%), followed by TenD (29.50 km², 28.8%), UBD (11.33 km², 11.0%) and HobD (8.14 km², 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.

When did China start deploying PV power stations in desert areas?

The results show that China began deploying PV power stations in desert areas as early as 2011. Validation of deployment years showed that 81 of 107 PV power stations (78%) had the same interpreted deployment year as the prediction (see Fig. S6). The deployment year mean error was -0.27 years with a standard deviation of 0.52 years.

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.

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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