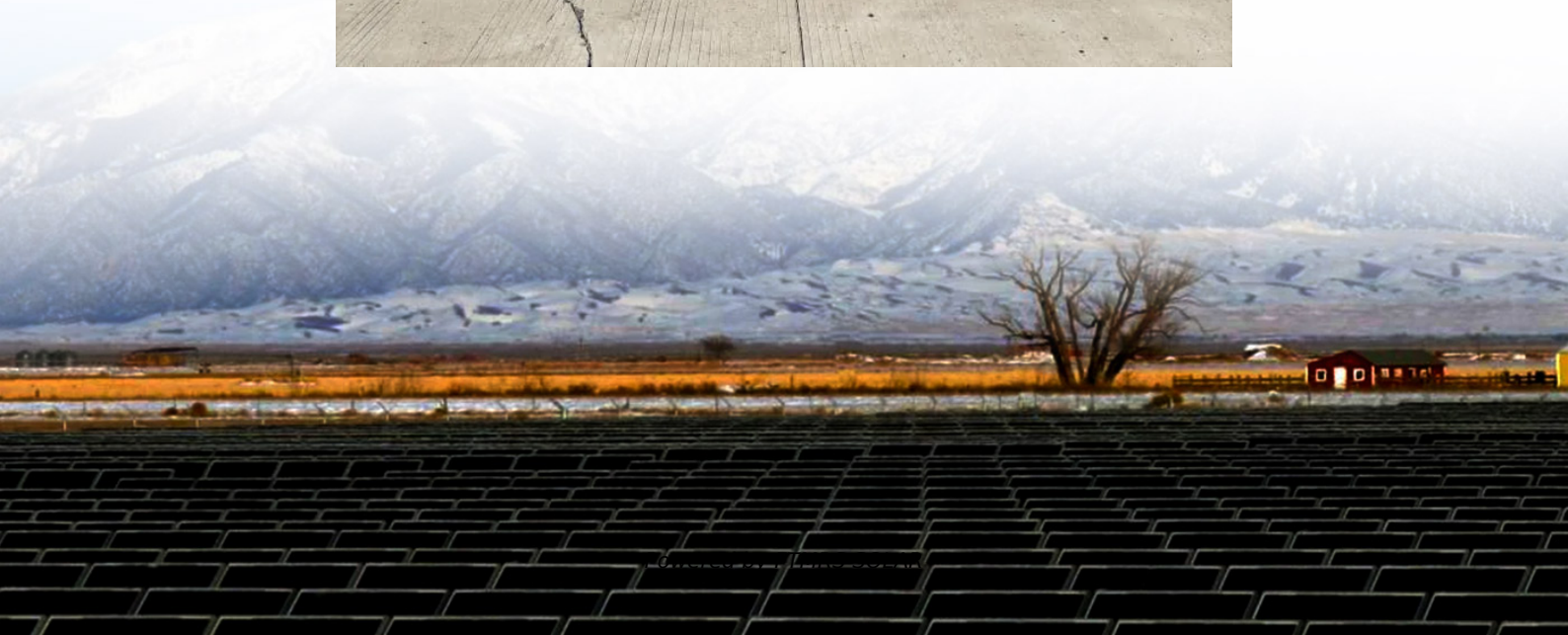


Solar container communication station desert solar cell





Overview

Solar energy is considered one of the key solutions to the growing demand for energy and to reducing greenhouse gas emissions. Thanks to the relatively low cost of land use for solar energy and high power.

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 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.

Why are deserts a hot spot for PV power stations?

Therefore, considering the convenience for maintenance (i.e., road density), and the availability of social infrastructure (i.e., population density), these deserts become hot spots for the deployment of PV power stations, and account for approximately 80% of the total area. Fig. 4.

Does vegetation cover PV power stations in different deserts?

Although the deployment area of GTD and BJD is relatively high ($>4 \text{ km}^2$), the vegetation area of GTD and BJD is very low (0.36 km^2 and 0.07 km^2 respectively), which indicates that the proportion of vegetation coverage in PV power stations in different deserts is quite different. Fig. 5.



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