

What is photovoltaic (PV) technology?

Photovoltaic (PV) technology can convert solar energy directly into electricity with large PV arrays. With the development of PV technology and the decline in the cost of PV power generation in recent years, the number of PV power plants has been rising fast (Zou et al., 2017).

How to develop PV solar farms in China?

Land use policy for developing PV solar farms in China. Different from most developed countries, in China, urban lands are owned by the country, and rural lands are collective ownership. For this reason, the development of PV solar farms highly relies on the land use policy introduced by the government.

Can Landsat imagery improve PV solar power plants?

The larger numbers of Landsat imagery, training samples, and input variables can include more PV solar power plants and more accurate PV information in our study (Fig. 10 c and d).

Do PV power plants reduce vegetation in China?

The PV power plants in China are more likely to be installed in suitable natural conditions but with low power demand or in areas with high local energy demand. We also found that installing PV power plants will generally decrease the vegetation. Our dataset is conducive to policy management and environmental assessment.

Which countries have a large-scale photovoltaic power plant?

5. SKTM Photovoltaic Project (233 MW) in Algeria is the first large-scale photovoltaic power plant in Algeria and has won the International Energy Corporation Best Practices award. 6. Argentina Cauchari Jujuy Solar PV Project (315 MW) is the world's highest large-scale photovoltaic power station.

Does China have a potential for solar PV power station installation & generation?

The results of this study indicated that China, as one of the fast-growing countries in the global south, shows outstanding potential for solar PV power station installation and generation potential.

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