

Full map of the Fengfa Pruz Power Station

Which land is used for PV power stations in China?

Fig. 1 Examples of PV power stations in China. The land used for PV power stations includes gobi(left),grassland (top),water bodies (right),mountain land (bottom),etc. The objective of this study is to provide the first publicly released 10-m national map of ground-mounted PV power stations of China in 2020.

Why do we provide a 10-m map for China's PV power stations?

To sum up,we provide a 10-m map for China's PV power stations to provide reference data to understand the spatial pattern of China's PV industry. The dataset could also be used for other applications such as prediction of PV's generating capacity and site selection for newly built PV power stations.

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.

Are ground-mounted PV power stations in China based on Sentinel-2 imagery?

Scientists led by the China Agricultural University have created a national-scale map and dataset of ground-mounted PV power stations in China. The data is based on Sentinel-2 imagery from 2020 and has a spatial resolution of 10 meters.

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 9,10. 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.

Can random forest predict PV power stations of China Parallely on Gee?

Finally,the trained random forest model is adopted to predict PV power stations of China parallely on GEE. Technical validation has been carefully performed across China which achieved a satisfactory accuracy over 89%.

Download scientific diagram | Map showing locations of hydroelectric power stations, water supply tunnels and wastewater treatment plants (a); and photographs of Sir Adam Beck Power ...

The national-scale PV power station map 40 in this study is provided for entire China in 2020 with a fine spatial resolution of 10 meters, which is the highest resolution ...

dataset of China's ground-mounted PV power stations, it can provide data references for relevant researchers



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in elds such as energy, land, remote sensing and environmental sciences. ...

Since July 2020, it now features 13 additional layers, including natural gas infrastructure, coal, nuclear, wind, solar power plants, hydrogen infrastructure, carbon capture projects, mining ...

Synapse has developed a free-to-use interactive map of power plants in the United States using data from the U.S. Energy Information Administration and U.S. Environmental Protection Agency. This map displays information on ...

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