

# China's largest solar power station map

How big is China's ground-mounted solar power station?

The tool shows China ground mounted solar facilities occupied a surface of 2,467.7 km<sup>2</sup> at the end of December 2020. Scientists led by the China Agricultural University have created a national-scale map and dataset of ground-mounted PV power stations in China.

How many PV power stations are there in China?

"According to our dataset, China has a total of 2,467.7 km<sup>2</sup> ground-mounted PV power stations in 2020. The top three largest provinces refer to Xinjiang, Inner Mongolia, and Qinghai, whose PV area ratios are 14.92%, 12.49%, and 11.26%, respectively, with a total of nearly 40% of all the PV power stations in China," the academics explained.

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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.

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.

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.

Features: Showcasing a win-win concept for ecology and economy, this project, one of the largest solar energy installations on open-pit mine land, promotes green development while ensuring efficient power ...

The world's largest solar farm, in the desert in northwestern Xinjiang, is now connected to China's grid. The 3.5-gigawatt (GW), 33,000-acre solar farm is outside Urumqi, Xinjiang's capital...

Above all, as the first publicly released 10-m national-scale distribution dataset of China's ground-mounted

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PV power stations, it can provide data references for relevant ...

China. India. Japan. S.Korea. ... Enel Green Power: Frye Solar Power Plant: map: Texas: 637: 3 : ... Nevada's largest solar power plant is owned by Semptra Generation which is a subsidiary of ...

The "Key Stats" section displays four charts summarizing data from the map layers: 1) nuclear power plant capacity, 2) coal power plant capacity, 3) natural gas power plant capacity, and 4) ...

According to our research, China has a total of about 2468 km<sup>2</sup> ground-mounted PV power stations in 2020. Fig. 2 illustrates that most of PV power stations lie in the northern part of China, especially in northwest and ...

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Web: <https://www.inmab.eu/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

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