

# Distribution map of solar generators in China

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.

What can a 10-m national-scale distribution dataset tell us about China's PV power stations?

Above all, as the first publicly released 10-m national-scale distribution dataset of China's ground-mounted PV power stations, it can provide data references for relevant researchers in fields such as energy, land, remote sensing and environmental sciences.

Where are solar power plants located in China?

From the result, many PV power plants are located in China's arid and alpine region, where solar energy resources are plentiful, precipitation is low, vegetation is sparse, population density is low, and elevation is relatively high (Fig. 6). precipitation is high, density population is high, and elevation is low.

How many ground-mounted PV power stations are there in China?

According to our dataset, China has a total of 2467.7 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 ratio are 14.92%, 12.49% and 11.26%, respectively, with a total of nearly 40% of all the PV power stations of China.

Where are PV power plants located in China?

Eventually, we established a map of PV power plants in China by 2020, covering a total area of 2917 km<sup>2</sup>. Based on the derived national PV map, we found that most PV power plants were sited on cropland, followed by barren land and grassland. In addition, the installation of PV power plants has generally decreased the vegetation cover.

What is remote sensing derived dataset for large-scale photovoltaic power stations in China?

We provide a remote sensing derived dataset for large-scale ground-mounted photovoltaic (PV) power stations in China of 2020, which has high spatial resolution of 10 meters. The dataset is based on the Google Earth Engine (GEE) cloud computing platform via random forest classifier and active learning strategy.

The Energy Information Administration Energy Mapping System provides an interactive map of U.S. power plants, pipelines and transmission lines, and energy resources. Using the map ...

The Global Solar Atlas provides a summary of solar power potential and solar resources globally. It is provided by the World Bank Group as a free service to governments, developers and the general public, and allows users to quickly ...



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