

Aerial photography of solar panels in Northeast 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 km². We found that most PV power plants were situated on cropland, followed by barren land and grassland, based on the derived national PV map. 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.

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.

How big are PV power plants in China?

The total area of the PV power plants in China is about 897 km², based on Dunnett's dataset. We manually modified this dataset with Google Earth's background to ensure that the PV samples are located inside the PV power plants.

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 ratios are 14.92%, 12.49% and 11.26%, respectively, with a total of nearly 40% of all the PV power stations of 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.

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This aerial photo taken on June 9, 2022 shows sheep walking through a photovoltaic power station in Gonghe County of Hainan Tibetan Autonomous Prefecture, northwest China's Qinghai Province. ... Yellow and ...



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