

Aerial photography of photovoltaic panels in Wuxu District

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 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.

Where are PV power stations located in China?

It should also be noted that with the rapid development of China's PV industry, increasingly more eastern provinces built large-scale PV power stations, including Jiangsu, Anhui and Shandong Province. Areas of PV power stations for each province of China.

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.

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.

What is the spatial resolution of PV power station map 40?

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 recorded among all the publicly released PV datasets. The data format is GeoTIFF while the spatial reference is WGS-84.

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accounting for 12% of the total in 2022. ... [49] from aerial photography, ...

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Aerial photo taken on Aug 3, 2021 shows a photovoltaic power station in Tujing village, Yunzhou district of Datong city, North China's Shanxi province. The photovoltaic power station, built ...

We established a PV dataset using satellite and aerial images with spatial resolutions of 0.8 m, 0.3 m and 0.1 m, which focus on concentrated PV, distributed ground PV and fine-grained ...

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Photovoltaic (PV) energy generation plays a crucial role in the energy transition. Small-scale PV installations are deployed at an unprecedented pace, and their integration into ...

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