

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.

How big is China's solar power plant?

This massive plant's 6 million panels alone account for 1% of the globe's solar photovoltaic capacity. Developed by the state-owned China Power Investment Corporation, the mammoth facility can generate 3.2 billion kilowatt-hours annually, enough to avoid 2 million tons of carbon emissions.

What is the smallest PV station that can be mapped?

Each pixel in the released PV maps has the area of  $100\text{ m}^2$  ( $10\text{ m} \times 10\text{ m}$ ). Meanwhile, because we have used post-processing method to filter the speckle noises that are less than  $3 \times 3$  pixels (i.e.,  $900\text{ m}^2$ ), therefore, the smallest PV station that can be mapped is  $900\text{ m}^2$ .

What land is used for PV power stations?

The land used for PV power stations includes gobi (left), grassland (top), water bodies (right), mountain land (bottom), etc. As for PV power station mapping, previous methods mainly focused on field survey and visual inspection, where manual annotation was performed to delineate the locations or boundaries based on the remote sensing imagery.

Which data format is used in a PV power station map?

The data format is GeoTIFF while the spatial reference is WGS-84. Meanwhile, only two kinds of values are in the PV power station map, where 0 stands for the non-PV regions while 1 represents the PV power stations.

What is the slope of a PV power station?

To further investigate this issue, we also calculated the histogram of land slope in each direction (Fig. 4b). It depicts that most of the PV power stations in the northern parts (i.e., north, northeast, and northwest) have a slope of below  $5^\circ$ ; i.e., most lying on the flatten ground instead of the nightside of the mountain.

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