

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.

Can remote sensing imagery be used to map PV power stations?

Over the past few years, many researchers have been devoted to mapping PV power stations using remote sensing imagery. For large-scale PV power station mapping tasks, medium-resolution imagery (e.g., Sentinel, Landsat) is commonly used for monitoring centralized/utility-scale PV power stations.

Are solar photovoltaic map services free?

Map services and data downloaded from the U.S. Large-Scale Solar Photovoltaic Database are free and in the public domain.

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.

Should PV power stations be identified in medium-resolution images?

For PV power stations that are difficult to be identified in medium-resolution images, future studies still need to incorporate higher resolution images and deep learning methods to fill this data gap (Layman, 2019, Yu et al., 2018).

Should PV power stations be monitored?

The monitoring of PV power stations would be meaningful for both researchers and government officials. As mentioned above, the last decade has witnessed the widespread of PV power stations in China, where much previous gobi, grassland, water bodies and mountain land have now been covered by newly-built PV power stations (Fig. 1).



Solar photovoltaic power station planning map

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