

Title: Outdoor power field data

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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.

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 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.

What is the difference between 0 & 1 in a PV power station map?

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. In addition, the provided PV dataset could be loaded into GIS software such as ArcGIS and QIS for data visualization and spatial analysis.

The outdoor field test of the 4-terminal on Si tandem photovoltaic module (specifically, InGaP/GaAs on Si) was investigated and a performance model, considering spectrum change ...

Current/voltage characteristics, power and module temperature and weather data are captured synchronously. The collected data can be classified on the basis of a number of quality criteria so ...

We describe and publish high-resolution solar power (PV) output, ancillary, and meteorological data from three high-latitude sites in Finland during 2015-2021. We performed quality ...

Data filtering has important impact on determined Rd Kimber A. et al., Improved Test Method to Verify the Power Rating of a PV Project. Proceedings of the 34th IEEE PV Specialist ...

Having data of PV plants operating in different field conditions can help the PV industry to develop more

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reliable PV systems and extend their lifespan. To accomplish these goals, it is ...

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 ...

Then, we analysed long-term outdoor field data of the same device for a period of 36 consecutive months in order to understand how the length and seasonality of the data acquisition ...

In the present study, we analysed long-term outdoor field data for a period of 36 consecutive months of a PV module in order to understand how the length (and seasonality) of the ...

This article presents the outdoor and synthetic performance data concerning the main electrical parameters estimated from the I-V curve for three phot...

The burgeoning economic and societal demands for electricity in China have spurred the continuous growth of quantity and voltage levels of substations. Consequently, there is an increasing ...

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