

Solar container power station land scale index table

<div class="df_qntext">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 referencesfor relevant researchers in fields such as energy,land,remote sensing and environmental sciences.

<div class="df_qntext">Can a new enhanced PV index be used to map national-scale PV power stations?

In this study,a new enhanced PV index (EPVI) was proposed for mapping national-scale PV power stations,and an evaluation process of module area calibration,power generation calculation,and carbon reduction estimation was constructed to quantify the carbon reduction benefits of existing PV power stations across China in 2020.

<div class="df_qntext">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.

<div class="df_qntext">Which data format is used in a PV power station map?

The data format is GeoTIFFwhile 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.

<div class="df_qntext">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.

<div class="df_qntext">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 mapof 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.

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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.

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