

# Zhao Solar Power Plant Address

Is there a spatiotemporal map of material stock in China's solar power plants?

To address the aforementioned gaps, we present an integrated framework combining diverse data sources including RS, GIS, and material intensity databases, to perform high-resolution spatiotemporal mapping of material stock in China's solar power plants from 2010 to 2019 at the solar power plant level.

Where are solar power plants located in China?

In contrast, smaller solar power plants ( $<100\text{MW}$ ) are densely scattered in areas closer to urban centers in central and eastern China, with distances ranging from 0 to 50 km, though only several small and remote solar power plants are distributed  $>50$  km from urban areas in the southwest region of China such as Sichuan, Guizhou, and Yunnan.

How much centralized solar power plant capacity does China have?

China's installed centralized solar power plant capacity comprises over 60 % of the total installed capacity encompassing both centralized and distributed PV systems (National Energy Administration, 2023).

Is China a good place to build a solar power plant?

The results show that China is rich in solar resources and has excellent CSP development potential. Approximately 11% of China's land is suitable for the construction of CSP stations, of which more than 99% is concentrated in five provinces in the northwest region (i.e., Xinjiang, Tibet, Inner Mongolia, Qinghai, and Ningxia).

Where are solar power plants located?

From the perspective of geographical distribution, larger solar power plants ( $\geq 100\text{MW}$ ) are sparsely distributed in remote locations from urban areas, particularly in the northwest region, notably Qinghai and Xinjiang.

Which raw materials are used in solar power plants in China?

Furthermore, to leverage the material in-use stock, we estimated the installed capacity using a GIS-based assessment method and quantified the four key and valuable raw materials (Al, Cu, Ag, and silicon (Si)) at the solar power plant level in China.

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