

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.

How to identify the year of solar installation in China?

Then, we utilize 30-meter resolution Landsat time series images and employ the CCDC method to identify the installation year of each solar power plant, covering the period from 2010 to 2019, which is the decade with the most significant growth of PV installations in China.

How long will China's photovoltaic power stations last?

From the perspective of photovoltaic scrap time, suppose the lifetime of photovoltaics to be 25 years (Libra et al., 2023), it can be inferred from Fig. 3 b and Fig. 4 c that China's photovoltaic power stations will face widespread scrapping starting from 2038, which highlights the importance of planning for areas to be decommissioned.

Why are photovoltaic installations moving eastward in China?

In contrast, it has moved southeastward annually from 2013 to 2019, to reduce transportation losses and costs, photovoltaic installations are gradually in the densely populated eastern region in China, and the photovoltaic to urban distance can also reflect this trend (Fig. 5 b).

How many PV solar installations are there in the world?

The resulting dataset expands the previous publicly available facility-level data for PV solar energy by 432% (in number of facilities), including 18,449 new installations in China, 9,906 in Japan, 4,525 in the United States, 2,021 in India and 17,918 in the European Economic Area.

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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By Gareth Brown, CEO, Clir Renewables To date, more than 500 GW of solar PV assets have come online across the globe. This has been facilitated by the rapidly falling cost of generating energy via solar power and, ...

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Our main findings include that: (1) in 2019, nearly 86 % (108 GW) of installed capacity was concentrated in northwest, north, central, and east China, with the material stock of Al ...

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