

Can solar photovoltaic projects help alleviate poverty in rural areas?

Nature Communications 11, Article number: 1969 (2020) Cite this article Since 2013, China has implemented a large-scale initiative to systematically deploy solar photovoltaic (PV) projects to alleviate poverty in rural areas.

Does community management influence household adoption of rooftop solar photovoltaics in rural China?

This paper examines inequality in household adoption of rooftop solar photovoltaics in rural China through a qualitative study of three villages. The Chinese government promotes distributed solar to drive low-carbon development. However, community management and China's institutional system influence unequal access.

Are low-quality solar panels a problem for rural residents?

However, rural residents are at a disadvantage in these communications. Their education levels tend to be lower and they have less access to information. Therefore, when solar installation companies use low-quality PV panels, households often cannot identify the problem. The low-quality panels reduce the power generation and income.

Can solar PV help China's poorest?

A review of photovoltaic poverty alleviation projects in China: current status, challenge and policy recommendations. Renew. Sustain. Energy Rev. 94, 214-223 (2018). Murray, S. F. Solar PV can help China's poorest.

How can China promote distributed PV?

To promote distributed PV, China's National Energy Administration launched a "county-level promotion" strategy in 2021. This strategy sets a target for at least 20% of rural households in 676 pilot counties and districts to adopt rooftop solar panels. The concept of "energy justice" originates from John Rawls' theory of justice.

Do local authorities play a role in household rooftop photovoltaic adoption?

The research revealed salient geographic disparities in household rooftop photovoltaic adoption, closely associated with the role of local authorities (particularly village committees) in new energy promotion schemes.

The panel data, presented on a monthly basis and disaggregated to the county level, introduces an unprecedented level of detail in photovoltaic research. ... The impact of photovoltaic ...

The ERS approximates solar's footprint as of 2020 at 336,000 acres of rural land based on the total solar production capacity installed in U.S. Census designated rural areas. As solar capacity has more than doubled ...

Overcapacity has led to a significant drop in module prices, with solar panel prices falling more than 50% over the course of 2011. Several PV manufacturers have entered ...

This study aims to identify and correlate three key influential factors that contribute to the acceptance and appreciation of PV panels in China's rural settings. A quasi-experiment was conducted, incorporating diverse ...

The ALA Dispute Resolution Panel is the only inter-professional panel dedicated to the rural sector. The Panel has been established by the ALA to recognise the need for a broader spectrum of arbitrators, mediators and experts with ...

The impact of solar PV on agricultural output is influenced by farming practices, operational scale, solar panel design, and integration with existing infrastructure. Solar panels contribute to ...

with no potential disputes over shared property rights, ensuring adequate installation areas (Lei et al. 2020). Thirdly, under the guidance of China's national policies such as rural revitalization ...

The decision to transfer land use from agricultural production to solar panel electrical production (solar farms) should be made by careful examination of immediate and long-term potential ...

Rural photovoltaic projects provide a sustainable, clean, and low-carbon power supply for production and life, which increases positive ecological values, such as reducing carbon ...