

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.

Can rooftop solar power be used in urban and rural areas?

Based on a DeepLab v3 algorithm, Zhong et al. extracted city-scale roofs from google earth satellite images, and then estimated the rooftop PV potential for urban and rural areas using a physical PV model. The most crucial feature of this approach is the low cost of data acquisition.

Should north-facing rooftops be neglected in future solar PV evaluations?

North-facing rooftops with a slope of 30° ; represent 32.7% of the total rooftop solar PV potential, therefore, they should not be neglected in future evaluations. The proposed approach is cost-effective and valid for accurately assessing micro- and macro-scale rural solar PV potential that can facilitate rural renewable energy penetration. 1.

Can rooftop solar distributed photovoltaic utilization solve the urban energy crisis?

The research and development of a scientific and feasible system for evaluating the potential of rooftop solar distributed photovoltaic utilization will help to better utilize solar energy, solve the urban energy crisis, and reduce the dependence of buildings on mineral energy.

How can solar PV be used in rural areas?

The rural annual electricity demand can be satisfied by installing PV modules on all rooftops or facades. Rooftops facing south and north and facades facing south and west have the highest PV potential ranks. They account for more than 80% of the rooftop solar PV potential and over 90% of the facade solar PV potential respectively.

Can photovoltaics help alleviate rural poverty?

Research is central to the success of major photovoltaic programmes in ramping up clean energy and alleviating rural poverty. A house in Qingdao, in China's eastern Shandong province, where rooftops are being used to generate solar power. Credit: Lingqi Xie/Getty

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Rural rooftop solar power generation policy

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