

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 the local government grant PV subsidies to poor households?

The local government encourages poor households to obtain labor income from PV revenue through labor work. Therefore, we believe that the changes in household energy use behavior do not have a reverse causal effect on whether the government grants PV subsidies to poor households.

Can photovoltaic feed-in-tariff subsidies be reduced?

First, as photovoltaic power-generation technology has advanced, many countries--including Germany, Sweden, and the Netherlands--have started or begun planning to reduce or cancel solar photovoltaic feed-in-tariff subsidies.

Do photovoltaic poverty alleviation projects need an urgent reform?

The subsidy policies for photovoltaic poverty alleviation project in China need an urgent reform because this project is not only more dependent on subsidies but also inefficient in using subsidies. To relieve financial difficulties, we construct the investment benefit evaluation model for photovoltaic poverty alleviation projects.

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.

Since then, solar panels in Africa have gone through something of a revolution and between 2009 and 2015, solar PV module prices fell by 80%. Solar-powered mini-grids are now often cost ...

Solar photovoltaic (PV) mini-grids are generally seen as a way to provide an affordable and sustainable energy supply to rural communities. Especially in regions with high ...

Renewable energy firms should be incentivized to establish photovoltaic power stations in rural areas. Poor households in these regions could benefit from related land rents and the wages they may earn from participating ...

In terms of power generation potential, Charlie et al. (Citation 2023) predicted the installed capacity potential and power generation capacity of the rooftop distributed photovoltaic power generation system of rural ...

distributed power generation. As the most abundant renewable energy, solar energy has the advantages of non-pollution, easy access and so on, with great potential for development. In ...

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