

Solar power generation for poverty alleviation for low-income households

Do solar photovoltaic projects improve poverty alleviation?

There lacks a comprehensive analysis on the large-scale deployment of solar photovoltaic projects and its impact on poverty alleviation. Here the authors show that solar photovoltaic poverty alleviation pilot policy increases per-capita disposable income in a county by approximately 7%-8%.

Can solar power help alleviate poverty?

Several studies on the intersection of PV deployment and poverty alleviation have focused on the role of PV in providing rural electricity access in locations that do not have access to electric grids or in a few developed countries 9,10,11,12,13,14,15,16,17,18,19.

What are photovoltaic poverty alleviation projects (ppaps)?

Photovoltaic poverty alleviation projects (PPAPs) 1. Introduction With the increasing consumption of fossil energy and changes in the ecological environment, it is of increasing significance to meeting the energy demands required for industrial and economic development with clean and efficient power generation .

What is solar PV poverty alleviation program in China?

More recently, Solar PV poverty alleviation program has become a national energy policy for poverty alleviation and achieved remarkable performances in China [7,36]. China's solar PV poverty alleviation program has received high political priority from the central government.

Does PV poverty alleviation reduce energy poverty?

The research results are consistent with the following conclusions: PV poverty alleviation is related to reducing energy poverty, and the effect of reducing energy poverty is more obvious in areas with richer sunlight resources. In this regard, the hypothesis H 5 is verified. Table 9. Heterogeneity analysis of sunlight endowments.

What is the work scheme on photovoltaic poverty alleviation project?

In 2014, the National Energy Administration and the State Council Poverty Relief Development Leading Group Office jointly issued The Work Scheme on Carrying out Photovoltaic Poverty Alleviation Project, dedicated to launching a nationwide PV poverty alleviation pilot project.

This article is related to a wide range of literature, such as studies on the effects of anti-poverty policies [1,[22][23] [24] as well as studies on targeted poverty alleviation ...

Off-grid solar power can alleviate energy poverty because (1) it is the only cost-effective solution for supplying power to households in grid-inaccessible areas, and (2) it can ...

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This paper discusses one of China's targeted poverty alleviation programs, namely the Solar Energy for Poverty Alleviation Program (SEPAP). SEPAP is an important and innovative policy ...

Since 2014, the PPAP has been regarded as one of the most important ways to alleviate poverty in rural China, by deploying distributed solar photovoltaic (PV) system in poor ...

Based on 1251 household surveys collected in photovoltaic (PV) poverty alleviation areas in rural China, this paper explores the effects of PV cognition including ecological values, perceived ...

China has established a solar photovoltaics poverty alleviation program to help reduce rural poverty and environmental inequality. ... a survey was conducted of 1247 low ...

Through PPAP, the government provides monetary and material assistance for the installation of PV systems, which then enables poor households to earn an income by selling electricity to grid ...

Our analysis revealed the co-benefits of emission-reduction and poverty alleviation, with PVPA policy boosting villagers' per capita net income by 2-3% in villages with PV plants. A nonlinear, inverted U-shaped ...

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