

# Industrial poverty alleviation through photovoltaic panels

Are photovoltaic poverty alleviation projects a social welfare project?

Energy poverty is a serious problem worldwide and has attracted the attention of policymakers. As a type of social welfare project, photovoltaic poverty alleviation projects (PPAPs) are expected to achieve high-quality poverty alleviation and an energy transformation in China.

Does photovoltaic poverty alleviation work in China?

Provided by the Springer Nature SharedIt content-sharing initiative To synergize climate mitigation with poverty alleviation, China has implemented photovoltaic poverty alleviation (PVPA) projects since 2014, with Anhui Province being among the initial pilot regions.

Who proposed photovoltaic poverty alleviation projects in China?

The photovoltaic poverty alleviation projects and corresponding procedures were proposed in China in 2015 by the National Energy Administration and the State Council Leading Group Office of Poverty Alleviation and Development.

Can solar photovoltaic projects reduce poverty in rural areas?

Since 2013, China has implemented a large-scale initiative to systematically deploy solar photovoltaic (PV) projects to alleviate poverty in rural areas. To provide new understanding of China's targeted poverty alleviation strategy, we use a panel dataset of 211 pilot counties that received targeted ...

Can photovoltaic power stations reduce poverty?

First, as one of the most efficient poverty alleviation strategies, village power stations occupy a small amount of space and involve little investment compared with other modes, which is possible to be promoted for the construction in the photovoltaic poverty alleviation projects.

Does PV improve poverty alleviation?

The PV poverty alleviation effect is stronger in poorer regions, particularly in Eastern China. Our results are robust to alternative specifications and variable definitions. We propose several policy recommendations to sustain progress in China's efforts to deploy PV for poverty alleviation.

"No poverty" is the first of 17 sustainable development goals set out by the United Nations. There are a number of poverty alleviation measures in China, one of which, the use of photovoltaic power has sparked the attention of both central and local governments due to its advantages: stability of power generation income, availability of renewable energy ...

Built on existing energy and poverty reduction policies, the National Energy Administration (NEA) and the State Council Leading Group Office of Poverty Alleviation and Development (OPAD) proposed to reduce

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rural poverty by deploying PV systems in poor regions and precisely targeting at poor households (National Energy Administration, 2014a, National ...

Photovoltaic poverty alleviation (PVPA), an innovative and unique policy in China aiming at green development and poverty alleviation, has attracted increasing attention from both the public and ...

Poverty alleviation based on the use of photovoltaic panels has been designated one of "the ten large-scale poverty alleviation programs in China" since 2015.

Photovoltaic-based targeted poverty alleviation (PVPA) has been established for 10 years with the mission of one of "the ten large-scale poverty relief programs" in China. This paper would firstly examine the historical conjuncture of the PVPA, followed by the current status and the analysis of policy instruments.

A global research team says that China's PV poverty alleviation scheme has ramped up disposable income levels in the country's poorest counties. The Chinese government aims to install more than ...

Researchers assessed the effect of solar energy projects on poverty in China and determined that PV systems can play a role in reducing multiple dimensions of poverty while also contributing to ...

To address this problem, we take China's Photovoltaic Poverty Alleviation Project (PPAP) as an example to empirically study the benefits of large-scale PV deployment ...

The photovoltaic poverty alleviation project, part of the "Ten Major Precise Poverty Alleviation Projects" implemented by the Poverty Alleviation Office of the ... Sustainable photovoltaic power generation spatial planning through ecosystem service valuation: A case study of the Qinghai-Tibet plateau," *Renewable Energy*. 222, 119876 (2024 ...

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for photovoltaic poverty alleviation ... efficiency of synergizing the energy-poverty-climate nexus through PVPA projects. As a result, it is necessary to ... It is a type of industrial poverty ...

Semantic Scholar extracted view of "What is the anti-poverty effect of solar PV poverty alleviation

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projects? Evidence from rural China" by Jing Liu et al. ... Assessing the efficiency level of the "poverty alleviation through agriculture project": A case study of fixed observation points in China ... (SEPAAP) in China, which aims to ...

There are currently three PV poverty alleviation power station modes in China [6]: 1) The home-based PV power station, which produces a distributed solar PV power generation system at 3-5 kW on the rooftop of poor houses, is established relatively early, allowing farmers to self-use the electricity generated and sell excess power to the State ...

of China's targeted poverty alleviation strategy, we use a panel dataset of 211 pilot counties that received targeted PV investments from 2013 to 2016, and find that the PV poverty

Photovoltaic poverty alleviation (PVPA), proposed by the Chinese government, is an innovative policy combining poverty alleviation with renewable energy, which aims to achieve poverty alleviation and low-carbon development through PV power generation by creating income for poor households and communities (Lo and Broto, 2019). The initial reason for developing ...

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. We identify three community-level ...

It is an important pathway for regions rich in solar energy resources to transform the advantages of renewable energy resources into the driving force of social and economic development, in line with the SDGs of global poverty eradication and clean energy supply [8]. An increasing number of studies have shown that integrating PV with issues such as poverty ...

Starting in 2014, PVPA is a relatively new concept in China. However, some scholars have already started studying on the combination of renewable energy promotion and poverty alleviation from different perspectives, both in China and abroad [5], [6], [7].&#220;rge-Vorsatz and Tirado [5] explored the synergy effect between greenhouse gas (GHG) emission ...

Covering 66.7 hectares (0.667 kilometers), it is one of the 31 projects helping villages shake off poverty by taking advantage of photovoltaic. Qinghai's solar power poverty alleviation projects have an installed capacity of 730,000 kilowatts of photovoltaic power, and are expected to generate 570 million yuan.

In 2014, China initiated a nationwide poverty reduction campaign through deploying photovoltaic (PV) systems in its vast rural areas, which aims to support over 2 million households.

As the key goals of the United Nations' set of 17 Sustainable Development Goals (SDGs) to be achieved by



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2030, eradicating poverty, increasing access to clean energy and mitigating climate warming must go hand-in-hand (Anonymous, 2020; Yang et al., 2023). Under the background of achieving carbon neutrality and eliminating absolute poverty, photovoltaic ...

Poverty reduction through photovoltaic-based development intervention in China: potentials and constraints. World Dev ... Based on 2010-2018 panel data from a tracking survey, this paper adopts a high-dimensional fixed effect model and finds that PPAPs reduced household energy poverty by 6.32%. ... Solar energy for poverty alleviation in ...

Since 2013, China has implemented a large-scale initiative to systematically deploy solar photovoltaic (PV) projects to alleviate poverty in rural areas. To provide new ...

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