



Solar panels for poverty alleviation households



Overview

Since 2014, China's photovoltaic poverty alleviation projects (PPAPs) have developed rapidly with the strong support of the Chinese government. Nevertheless, empirical evidence on the contribution of solar PV to livelihood improvements in rural areas is limited. We analyzed the role of solar PV to livelihood improvements in rural areas. Photovoltaic poverty alleviation projects (PPAPs) have a significant anti-poverty effect. Livelihood capital probability distribution. 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 household use. 2.1. Clean energy and poverty alleviation. Under the background of increasing climate change and poverty issues, research linking clean energy and poverty reduction has attracted more attention. 3.1. Data sources. The dataset employed in this study was obtained from questionnaires during field survey of six poverty-stricken counties in China (Haiyuan).



Article Content

Sustainability assessment of individual-level solar ...

According to the National Energy Administration (2020b), as of July 2020, China had built and put into operation 26.49 GW of photovoltaic power stations for poverty alleviation, benefiting 1,472 counties, 138,091 villages, and ...

Governance Challenges and Solutions of the Solar Energy for Poverty ...

of solar PV power systems for poverty alleviation, benefiting 1,472 counties, 138,091 villages, and 4.18 million poor households, averaging more than 6 kilowatts per poor household.

Policy evaluation and optimization for photovoltaic poverty ...

This study aims to evaluate the effects of PVPA projects in Anhui Province from a macroscopic perspective and via the panel data from 11 poverty-stricken counties, including ...

A scientometric review of global research on solar photovoltaics ...

The PPAP is a targeted measure aimed at generating income for impoverished households and communities through systematic deployment of solar power generation. From ...

Social benefit evaluation of China's photovoltaic poverty alleviation ...

As a development strategy related to the environment and economy, photovoltaic poverty alleviation (PVPA) program was chosen by China .The program will help give full ...

Frontiers | Scalar Containment of Energy Justice and Its ...

Scalar Containment of Energy Justice and Its Democratic Discontents: Solar Power and Energy Poverty Alleviation. Amber Nordholm 1,2 * Siddharth Sareen 1,3. ... Defined ...

LOW AND MIDDLE INCOME ROOFTOP SOLAR PV APPROACHES ...

Low income, underserved, residential households eligible for 1kWp –2kWp solar PV systems Approach • System installations were funded through credit from a bank ... China's Solar ...

Solar photovoltaic interventions have reduced rural poverty in ...

Here the authors show that solar photovoltaic poverty alleviation pilot policy increases per-capita disposable income in a county by approximately 7%-8%.

Of jobs, skills, and values: Exploring rural household energy use ...

To achieve the poverty alleviation goal, the Chinese government has decided to use 6 years to implement PPAPs in rural areas through subsidies and income from solar PV ...

Linking social-psychological factors with policy expectation: Using ...

The PVPA program specifically designed four major types of solar projects to reduce poverty and popularize solar energy adoption in rural areas: (1) village-level solar PV ...

Poverty mitigation via solar panel adoption: Smart contracts and ...

For example, the Chinese government (the Energy Bureau and the Office of Poverty Alleviation and Development) prioritizes to subsidize 556,000 households to adopt ...

Farmers' attitudes and adoption preferences toward household solar ...

In China, the government has issued a bunch of policies to accelerate PV promotion, including investment cost subsidy, feed-in tariff subsidy, the implementation of the ...

Solar photovoltaic interventions have reduced rural poverty in China

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

How do photovoltaic poverty alleviation projects relieve household ...

The impact of photovoltaic poverty alleviation policy (PPAP) on household energy poverty is empirically investigated. • The panel data of a tracking survey from 2010 to 2018 is ...

National goals or sense of community? Exploring the social ...

Solar knowledge was measured by the level of perceived knowledge of both solar PV power generation and existing poverty alleviation projects, including knowledge of how ...

Photovoltaics can reduce economic poverty by 4.5

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 ...

Solar power dawns light of prosperity in China's impoverished areas

Solar photovoltaic (PV) power project, one of the major targeted poverty alleviation programs in China, has contributed greatly to the country's poverty reduction efforts, ...

Case Study | COVID-19 Recovery, Poverty Alleviation ...

Using Gogla, the organization also quantifies multi-layer data sets like the number of households reached with clean energy, the resulting cost savings per household from solar energy, the ...

Sustainability assessment of individual-level solar energy poverty ...

In 2014, China launched an ambitious poverty alleviation program (Solar-energy Poverty Alleviation Program, SEPAP) by implementing solar photovoltaic systems in remote rural ...

Solar energy for poverty alleviation in China: State ambitions ...

Different from the much discussed solar PV poverty alleviation projects that were directly initiated and promoted by state actors for poverty alleviation , agrivoltaics ...

Rural photovoltaic projects substantially prompt household energy ...

The revenue from PV poverty alleviation power plants in Fangshan county has been distributed to poor households in four main ways: Incentives (giving awards to ...

Using agrophotovoltaics to reduce carbon emissions and global rural poverty

Poverty-alleviation programs using solar energy (PAPSE) are poised to unlock unprecedented capital investments with significant potential to reconcile the ...

Rural photovoltaic projects substantially prompt household energy ...

By 2020, the PPAP had completed the construction of 26.36 million kilowatts (kW) of PV poverty alleviation power stations, which took up more than 10% of the installed ...

Can authoritarian regimes achieve just energy ...

Evidence from China's solar photovoltaic poverty alleviation initiative. Author links open overlay panel Kevin ... of benefits. Second, from a just outcome perspective, the ...

A scientometric review of global research on solar photovoltaics ...

In recent years, China has innovatively implemented the Photovoltaic Poverty Alleviation Projects (PPAPs), presenting a viable solution for addressing multiple SDGs. The ...

Sustainability assessment of individual-level solar energy poverty ...

In this paper we study the Solar Energy for Poverty Alleviation Program (SEPAP) in China, which aims to increase the 3,000 Yuan annually for poor people by ...

Chinese photovoltaic poverty alleviation: Geographic distribution ...

Launched in 2015, the solar-energy scheme aims to add over 10 GW capacity and benefit more than 2 million households across the country by 2020 (Ockwell et al., ...

What is the anti-poverty effect of solar PV poverty alleviation ...

China has made significant strides in combating energy poverty by allocating funds to provide households with solar photovoltaic (SPV) systems. ... Photovoltaic poverty ...

Energy poverty alleviation and its implications for household ...

The existing energy poverty alleviation programs, such as passive solar heating renovation and household power support, are of great significance for remote rural households ...

Does the solar PV program enhance the social ...

As one of the most critical TPA programs, PPAP combines solar energy development and poverty alleviation brings stable solar power generation benefits for the ...

Governance Challenges and Solutions of the Solar Energy for ...

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 ...

Of job, skills, and values: Exploring rural household energy use ...

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

How do photovoltaic poverty alleviation projects relieve household ...

The use of solar panels can address the power dimension of local residents' energy poverty and lower the threshold for farmers to use clean energy, which in turn improves ...

Solar power dawns light of prosperity in China's impoverished areas

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. About ...

Photovoltaics can reduce economic poverty by 4.5

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 ...

Is off-grid residential solar power inclusive? Solar power adoption ...

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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