Solar Photovoltaic Power Generation for Targeted Poverty Alleviation

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 ...

Is photovoltaic-based targeted poverty alleviation the ten large-scale poverty relief programs?
Photovoltaic-based targeted poverty alleviation has been designated as one of "the ten large-scale poverty relief programs" in China. In spite of remarkable achievements,a number of issues still need to be addressed.

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.

Can solar power help reduce poverty in China?
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,according to a white paper released by the State Council Information Office on April 6.

Can photovoltaic power reduce poverty in China?
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 extension and innovation in future "energy saving and emissions reduction" measures.

Does PV investment reduce poverty?
The effect of PV investment is positive and significant in the year of policy implementation and the effect is more than twice as high in the subsequent two to three years. The PV poverty alleviation effect is stronger in poorer regions,particularly in Eastern China. Our results are robust to alternative specifications and variable definitions.

China implemented a solar photovoltaic (PV) poverty alleviation (PVPA) policy of building nearly 0.24 million PVPA power plants in 2014-2020 to fight poverty. However, our current knowledge of its ...

Photovoltaic power generation is one of the targeted poverty alleviation projects in China and has the potential to lower carbon emissions and alleviate environmental impacts (Han et al., 2020; Li ...

Obviously, the imperfection of the technology will affect the quality of power and hinder the implementation and profitability of the project. e conversion rate of photovoltaic cells still needs ...

As a part of an environmentally concerned development strategy, the photovoltaic poverty alleviation in China is adopted to lift households above the rural extreme poverty line by the end of 2020. With the detailed project-level data in 534 counties, 22 provinces, this systematic assessment on Chinese photovoltaic power projects identifies geographic distribution, ...

As a development strategy related to the environment and economy, photovoltaic poverty alleviation (PVPA) program was chosen by China [4].The program will help give full play to the advantages of rich solar resources in poor areas, and promote the increase of photovoltaic scale while promoting regional economic development, so as to achieve a win-win situation for ...

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

China is one of the countries with abundant solar energy resources and also has rapid development in the photovoltaic (PV) industry. Since 2014, the Chinese government has begun to implement the PV power generation for poverty alleviation, which not only was in line with the concept of green development but also accelerated the pace of poverty alleviation in ...

In 2014, China announced an ambitious plan to help alleviate rural poverty through deploying distributed solar photovoltaic (PV) systems in poor areas. The solar energy for poverty alleviation programme (SEPAP) aims to add over 10 GW capacity and benefit more than 2 million households from around 35,000 villages across the country by 2020.

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 government is therefore useful to provide a comprehensive understanding of the impacts of PVPA and its policy implication. By means of a systematic review, this study ...

Solar Photovoltaic-based Targeted Poverty Alleviation (PV-PA) projects aim to broaden the income channels and improve the electricity supply of the rural poor. By selling the electricity generated by solar PV systems, each household that implements PV-PA project earns >3000 yuan per year after the removal of loads and taxes (Wu, Ke, Wang, Li, & Lin, 2019; ...

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 areas to help alleviate poverty and stabilize rural power supplies, in an effort to benefit more than 2 million households in about 35,000 villages across the country from solar PV power ...

Photovoltaic (PV) power generation is one of the world"s most promising options for carbon emission reduction. However, whether the operation period of solar parks can increase greenhouse gas (GHG ...

Semantic Scholar extracted view of "Evaluation of energy and environmental performances of Solar Photovoltaic-based Targeted Poverty Alleviation Plants in China" by Chaofan Wang et al. ... China implemented a solar photovoltaic (PV) poverty alleviation (PVPA) policy of building nearly 0.24 million PVPA power plants in 2014-2020 to fight poverty ...

In 2014, China set ambitious goals to simultaneously develop solar energy and alleviate rural poverty by increasing solar PV in economically deprived rural areas through solar PV Poverty ...

The solar photovoltaic poverty alleviation project (PPAP) is an important innovation in China"s targeted poverty alleviation (TPA) mission. ... establishing distributed solar PV power generation systems on the roof-tops of poor houses; 2) constructing a 100-300 kw village-level solar PV power station at or near the village, and all of the ...

However, due to the fact that solar PV power generation has thus far only been used as a supplement to hydropower generation in Tibet [7], and given the extremely strict ecological protection ...

DOI: 10.1016/j.energy.2020.119498 Corpus ID: 229414970; What is the anti-poverty effect of solar PV poverty alleviation projects? Evidence from rural China @article{Liu2021WhatIT, title={What is the anti-poverty effect of solar PV poverty alleviation projects?

In response to the last-mile problem in building a "moderately prosperous society," the Chinese central government urged all sectors at all levels to contribute to Targeted Poverty Alleviation (TPA), a program that is dedicated to lifting all people out of poverty by 2020 (Liu, Guo, & Zhou, 2018).Specifically, the Office of Poverty Alleviation and Development ...

Solar photovoltaic (PV) power generation has the advantage of combining green development with income generation. ... It is regarded as a major innovation in China"s targeted poverty alleviation mission: A PV power station has low requirements on the natural environment except for sunshine and land [45], and also has the advantages of energy ...

China is among the countries with abundant solar energy resources, with more than 2000 sunshine hours in more than two-thirds of the country. This provides particularly favorable conditions for poverty alleviation using PV power (Zhang, 1995).As one of "the ten targeted poverty alleviation programs" designated for implementation by the Poverty Relief ...

The photovoltaic poverty alleviation project, part of the "Ten Major Precise Poverty Alleviation Projects"

implemented by the Poverty Alleviation Office of the ... Impact of photovoltaic power generation on poverty alleviation in Jiangsu, China Wenbo Li. 0009-0007-5550-5937 ; Wenbo Li ... Benefits of solar photovoltaic systems for low ...

The use of photovoltaic power in poverty alleviation in China is one of the "Ten Targeted Poverty Alleviation Projects" of the government. This type of alleviate poverty features prominently in the planning of both central and local government because it provides for stable earnings, the possibility of extending renewable energy and innovation in energy saving and ...

China implemented a solar photovoltaic (PV) poverty alleviation (PVPA) policy of building nearly 0.24 million PVPA power plants in 2014-2020 to fight poverty. However, our current knowledge of its effects, encompassing not only primary poverty alleviation but also secondary objectives such as carbon emission-reduction, remains comparatively constrained. ...

As the main project in targeted poverty alleviation, photovoltaic poverty alleviation (PVPA) has attracted increasing attention from the public and government. ... A real options model for renewable energy investment with application to solar photovoltaic power generation in China. Energy Econ, 59 (2016), pp. 213-226, 10.1016/j.eneco.2016.07.028.