



China's solar energy poverty alleviation work

According to the IEA statistics, the number of people in China who relied on biomass for cooking exceeded 300 million in 2015 and was still 240 million in 2018 [6, 7], and the number of rural households using biomass energy for cooking far exceeds that of urban households, with nearly 60% of rural households using biomass energy, compared with only ...

Lo [36] pointed out that the social and ethical aspects of China's clean energy transition should be assessed on a case-by-case basis because some policies, such as the photovoltaic poverty alleviation initiative that aims to ease poverty through a clean energy transition in rural areas, put social justice in a central position.

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 installing solar panels.

Since the establishment of the People's Republic of China, poverty alleviation has been one of the priorities on the government's agenda. On February 25, 2021, President Xi Jinping solemnly declared at the National Conference of Poverty Alleviation Summary and Commendation held in Beijing that "Victory in the battle against poverty is complete, and China ...

Notice on Guiding Opinions on Energy Work in 2017: 2017.7: Guiding Opinions on the Implementation of the 13th Five-Year Plan for Renewable Energy Development: ... Linking social-psychological factors with policy expectation: using local voices to understand solar PV poverty alleviation in Wuhan, China. *Energy Policy*, 151 (2021), Article 112160.

In China, solar power had the highest impact on poverty reduction with a decrease in the poverty rate by 41.317 percent, followed by circular economy measures with a decline in the poverty rate by 3.035 percent .

This work is supported by National Key R& D Program of China-Technical System and Key Technology ... also, proposed suggestions to perfect China's solar energy regulatory system. In parallel, Liu et al. [79] proved the potential of PPAPs in poverty alleviation by comparing the variation of buildings energy consumption before and after ...

PV poverty alleviation program is an innovative initiative that combines China's advancement in the solar energy industry and targeted poverty alleviation initiative. Its intent is to focus on poor households in the key poverty-stricken areas which have the necessary conditions for PV construction.

An energy poverty policy simulation model is developed to make integrated decision and optimize China's energy poverty alleviation. In the model, system dynamic modeling is used to investigate the time-varying behavior of energy poverty system over time, and scenario analysis is carried to test and determine the most efficient scenario.



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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

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

It has implemented an innovative solar energy project to fight poverty, and national solar power capacity in poor areas has reached 18.65 million kilowatts, covering 100,000 villages, providing ...

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 ...

DOI: 10.1016/J.ERSS.2018.04.035 Corpus ID: 170069877; Solar energy for poverty alleviation in China: State ambitions, bureaucratic interests, and local realities @article{Geall2018SolarEF, title={Solar energy for poverty alleviation in China: State ambitions, bureaucratic interests, and local realities}, author={Sam Geall and Wei Shen and Gongbuzeren}, journal={Energy ...

Counties must track and monitor poverty statuses, the use of poverty-alleviation funds, and the impact of multiple policies competing on the poverty status of households so that each policy can work together to amplify each results." Qiu adds, "The initiatives should differ depending on the context of each region.

The projects that combine solar photovoltaics (PV) and poverty alleviation (PA) are the explorations of sustainable development (SD) from the Chinese government, aiming at both reducing the number ...

In China, the solar energy resource endowment presents the distribution characteristics of "the plateau is larger than the plain, and the dry area in the west is larger than the wet area in the east" [5]. ... Haiyuan county was once a key county in the national poverty alleviation work. After China's complete elimination of extreme poverty ...

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 ...

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 ...



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Photovoltaic poverty alleviation project (PPAP) is one of China's essential targeted poverty alleviation projects. This study proposes a machine learning model and uses satellite images to evaluate the performance of PPAP in China. The trained deep convolutional neural network (DCNN) with transfer learning was first used to identify the scale of photovoltaic ...

With the detailed project-level data in 534 counties, 22 provinces, this study systematically assessed China's photovoltaic poverty alleviation strategy from the geographic ...

Health shocks or risks related to household energy consumption (HEC) are one of the most serious health threats worldwide. Based on the 2018 China Health and Nutrition Survey Database (CHNS), this study empirically quantified the linear and nonlinear relationships between energy consumption, health, poverty, and living environment quality at the household ...

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 installing solar panels. SEPAP was initially launched in 2014 and officially ended in 2020 when President Xi announced that absolute poverty was eliminated in China. During the 6 years, China built and ...

Recognizing the potential of renewable energy in addressing poverty in some of its impoverished areas, the NEA and the State Council jointly issued a work plan to implement the Solar Energy ...

Evidence from China's solar photovoltaic poverty alleviation initiative. Kevin Lo. ... Evidence from China's solar photovoltaic poverty alleviation initiative. Energy Research and Social Science, 82, Article 102315. ... N1 - Funding Information: This work was supported by the General Research Fund (12600718) of the Research Grants Council of ...

Recognizing the synergies within the energy-poverty-climate nexus, China has implemented photovoltaic poverty alleviation projects (PVPA) to combine renewable energy ...

The solar energy for poverty alleviation project (SEPAP) developed as a Chinese strategy in 2014, has been received a significant commitment from the central government with a series of policies, such as The Work Scheme on Carrying out PV-based Poverty Relief Projects (2014), the Project for Compilation of PV-based Poverty Relief Implementation Scheme (Trial) ...

The Chinese government announced the Solar Energy for Poverty Alleviation Programme (SEPAP) in 2014, which pledged to increase the annual income of two million rural households by 3,000 yuan (US ...

Poverty alleviation is an important work of the Chinese government in recent years. According to the international poverty standards of the world bank, China's poverty reduction population accounts for more than 70% of the world. ... In China, the solar energy resource endowment presents the distribution



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characteristics of "the plateau is ...

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, ...

In 2014, China launched an ambitious poverty alleviation program (Solar-energy Poverty Alleviation Program, SEPAP) by implementing solar photovoltaic systems in remote rural areas. It aimed to increase energy capacity by more than 10 GW and generate annual income of ~3,000 yuan for each poor household (National Development Reform ...

At the same time, clean energy subsidies should be increased for energy poverty groups, such as photovoltaic poverty alleviation (Chang et al., 2021; Chen et al., 2022;), to reduce poverty and ...

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