

What is photovoltaic poverty alleviation (PVPA)?

Photovoltaic Poverty Alleviation (PVPA) projects, which utilize the subsidies and income from PV power to alleviate poverty in rural areas, are part of a comprehensive energy policy innovation in China. It is expected that the projects will deploy at least 10GW PV and benefit more than two million poor households in total by 2020.

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%.

What is targeted poverty alleviation using photovoltaic power?

Targeted poverty alleviation using photovoltaic power refers to the laying solar cell panels on house roofs and agricultural greenhouses and marked by "spontaneity, self-use and grid-connection of surplus"; in other words, farmers can use the electric energy on their own, and sell surplus electric quantity to the state grid.

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.

Who is working on PV poverty alleviation project?

Work program on implementation of PV poverty alleviation project; 2014. National Development and Reform Commission, State Council of the People's Republic of China, National Energy Administration of the People's Republic of China, China Development Bank, Agricultural Development Bank of China.

Is PVPA an innovative integration project of renewable adoption and poverty alleviation?

A comprehensive assessment system, combining the evaluation of at least three dimensions, namely financing section, PV development, and poverty alleviation, is of both practical and research significance. 5. Conclusions PVPA is an innovative integration project of renewable adoption and poverty alleviation in China.

Totalling 12,650 village-level solar power plants and installed capacity of 5.86 GW, these plans are proposed to help 18,415 poverty-stricken villages and 1,012,524 poor households (CNEA L, ...

poverty standard (2300 RMB of annual per capita income), the poverty population in China was around 56.30 million in rural areas in the year of 2015 [18], most of which were staying in ...

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 ...

Photovoltaics facilities have no environmental impact during the power generation process, while potential pollution may exist after the solar PV demolition (Antoniou ...

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These poverty alleviation support not only can help local precision poverty alleviation, but also brings "GCL" to the rural scene. ... so this area is more suitable for developing photovoltaic power generation. Based on these natural ...

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 ...

PV-based targeted poverty alleviation includes six procedures: the identification of low-income families, the construction of PV projects, the operation and maintenance of PV ...

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 ...

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 ...

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Fig. 2 further presents the installed capacity and income generation of China's photovoltaic poverty alleviation by province. In total, the photovoltaic poverty alleviation ...

The research highlights the role of solar PV in alleviating poverty and advancing the SDGs, offering valuable insights to decision-makers seeking to leverage solar energy for ...



# Precision Poverty AlleviationSolar Photovoltaic Power Generation

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