

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.

What is photovoltaic poverty alleviation in China?

As a part of an environmentally concerned development strategy, the photovoltaic poverty alleviation in China is adopted to lift households above the extreme poverty line 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%.

Are photovoltaic power stations a good option for poverty alleviation projects?

At present, the per unit benchmark prices for a photovoltaic poverty alleviation power station (0.50 MW and below) and the per unit subsidy for household distributed photovoltaic poverty alleviation projects remain unchanged, conferring on these projects a great advantage.

Does national policy regulation support photovoltaic poverty alleviation?

Although the benchmark feed-in tariff for photovoltaic power decreases continuously, and power grid parity for renewable energy is inevitable, national policy regulation and controls still provide preferential support for photovoltaic poverty alleviation (Yang et al., 2019).

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.

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 ...

PV poverty alleviation becomes increasingly effective over time (cumulative effect). Therefore, counties that have been pilots for longer periods will see an additional poverty reduction effect. ...

The photovoltaic poverty alleviation program is an innovation of sustainable development strategy by the Chinese government, which aims to promote the development of renewable energy ...

Photovoltaic poverty alleviation is a significant way for regions rich in solar energy resources to transform the advantages of renewable energy resources into the driving ...

Photovoltaic poverty alleviation should be carried out in areas with good light resource conditions according to local conditions, which is consistent with the national strategy of precise poverty alleviation and poverty ...

PV poverty alleviation projects and 20% investment subsidies for large-scale ground power stations, while the central government will allocate initial investment subsidies according to the ...

As a targeted poverty alleviation policy, the photovoltaic poverty alleviation policy (PPAP) plays an important role to reduce rural poverty in China. An ex-post quantitative ...

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 ...

Solar PV has significant benefits in supplying energy, protecting the environment, and boosting economic growth with the photovoltaic poverty alleviation (PV-PA) policy as an ...

After this PV poverty alleviation power station is grid-connected, it will provide annual poverty alleviation fund of 12 million, to giving a subsidy of 3000 Yuan to each family each year, and lasting 20 years. ... We used higher precast pipe ...

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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 ...

We carried out photovoltaic poverty alleviation surveys in the three countries as case study. Villagers and village cadres related with the solar PV application are our key ...

