

Solar power generation increases village collective income

Is village-level PV power generation a good model for Poverty Alleviation?

After the cost-benefit analysis of different types of photovoltaic poverty alleviation power stations, Bai et al. (2021) conclude that village-level PV power generation is the most effective model, because its beneficiary ratio is well controlled, and it is difficult for enterprises to profit from it.

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%.

How much does a household earn from PV power generation?

For household-level PV power generation, the property right and income belong to households, so the income depends on the actual power generation. According to Guo (2017), the average income of each household is 4853 yuan/year. Only few households' income is lower than the normal level due to roof repair or equipment failure.

Can a village adopt a solar power system?

Usually, only about 30% of households can adopt PV. To increase that percentage, the village would need to expand transformer capacity. The costs of that expansion get divided up and paid by later adopters. This raises their construction costs and creates an obstacle to adoption. It is another form of injustice.

How does abundance of solar resources affect household income?

Abundant solar resources in a region indicate high PV power generation ability. We expect this variable to have a positive effect on local household income. Both sunlight exposure and average solar radiation are the indicators measuring the abundance of natural conditions.

Do villagers have a role in photovoltaic negotiations?

From a procedural justice standpoint, the village committee acts as an agent negotiating with photovoltaic enterprises while villagers participate limitedly (e.g., voting at meetings). Regarding pricing roof resources and determining cooperation specifics, villagers' absence in negotiations diminishes the fairness of the process.

As of June 18, the photovoltaic power generation project had increased the operating income of the village collective by more than 1.9 million yuan. This year's operating income from ...

4.4. Design of the building and the electricity services. The center is based on a 2.16 kilowatt (kW) solar PV system which provides energy for a range of services such as ...

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The economic benefits brought by the solar PV power generation could help poor households out of poverty and strengthen the village collective economy as well [9]. In ...

Power a village, light up a Nation: Women lead a transformative solar lighting project in rural Kassala, Sudan. ... managerial aspects has opened the door for tens of women to confidently ...

The straw purchase for the comprehensive straw utilization production line increases the village collective's and villagers' annual income by about 350,000 USD. In 2021, the integrated smart ...

In 2012 Brixton Energy's first project was launched at Loughborough Estate. Brixton Energy Solar 1 is the UK's first inner-city, cooperatively owned renewable energy project on a social housing ...

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