

Does community management influence household adoption of rooftop solar photovoltaics in rural China?

This paper examines inequality in household adoption of rooftop solar photovoltaics in rural China through a qualitative study of three villages. The Chinese government promotes distributed solar to drive low-carbon development. However, community management and China's institutional system influence unequal access.

How big is solar PV in China?

Solar PV of China accounted for about one third (174GW) of the global total installed capacity in 2018 and contributed to 3.5% of national total power generation in 2020 .

What is the long-term development of solar PV in China?

Long-term development of solar PV in China 4.1.1. National development pathway As shown in the long-term simulation made by different models (Fig. 3), amount of solar power generation in 2050 ranges from 3200 to 6300 TWh (billion KWh).

What is distributed solar PV (hspv)?

Distributed solar PV contributes one third to total solar power generation in China, but household solar PV (HSPV) currently accounts for only 22% in the distributed solar market.

How can China promote distributed PV?

To promote distributed PV, China's National Energy Administration launched a "county-level promotion" strategy in 2021. This strategy sets a target for at least 20% of rural households in 676 pilot counties and districts to adopt rooftop solar panels. The concept of "energy justice" originates from John Rawls' theory of justice.

What is the share of distributed solar PV (dspv) in national installed capacity?

The share of distributed solar PV (DSPV) in national installed capacity of solar PV increased from 13.33% in 2016 to 31.1% in 2020, to which household solar PV (HSPV) contributed less than 20%.

Our paper thereby provided empirical evidence for solar PV to promote household clean energy transition for other developing countries or areas. In addition, we delved into mechanisms of how this policy prompts rural household energy transition, which helps to understand multiple benefits of solar PV as a form of clean energy. Besides ...

Household use of solar energy refers to the use of solar energy as a household energy source, such as using a solar water-heater to bathe, and using solar cookers to boil water or cooking, etc. And the PPAPs are not identified as solar energy usage. The reason for doing so is that all electricity generated by photovoltaic power is connected to the national grid, and ...

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Photovoltaic cells or so-called solar cell is the heart of solar energy conversion to electrical energy (Kabir et al. 2018). Without any involvement in the thermal process, the photovoltaic cell can transform solar energy directly into electrical energy. Compared to conventional methods, PV modules are advantageous in terms of reliability, modularity, ...

China is the largest residential PV market in the world, and this trend is only expected to strengthen in the next few years. By July 2021, China's cumulative installed residential PV...

Due to their clean and sustainable characteristics, household photovoltaic (PV) products have become an important means to deal with the energy crisis and develop a low-carbon society. Based on a large sample survey of 800 households in 30 Chinese provinces and municipalities, this paper explores the mechanism by which the household PV subsidy ...

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Referring to the "White Paper on China's Household Photovoltaic Market", the unit capacity cost of household PV is 492 \$/kW, and the unit capacity installation cost is 70 \$/kW. The feed-in tariff of household PV is 0.0422 \$/kWh [40]. According to the "Questions and Answers on Household PV Construction and Operation" (2022), the service life of household PV is 25 ...

The number of household solar PV adopters from 2016 to 2020 in Tianjin, China. In December 2017, the Chinese government announced a reduction of 0.05 RMB/kWh for household photovoltaic subsidies adopted after January 2018. The sudden phase-out of the higher subsidy led to a sharp increase in the number of household photovoltaic installations in ...

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The background of Chinese households adopting solar energy is unique and rarely discussed in previous studies. This paper aims to analyze the unfair experiences of early household rooftop PV adopters in China. It also discusses how these experiences can inform future policies to enable a more socially just rollout of solar PV.

Distributed photovoltaic systems (distributed PV) enable rural households to replace traditional ...

Solar energy, including household and community based solar photovoltaic panels, is the fastest growing source of low-carbon electricity worldwide, and it could become the single largest source of ...

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