

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.

Are floating photovoltaics a viable alternative to solar energy?

The emergence of floating photovoltaics (FPV) provides an alternative to solve the tension between increasing solar energy demand and the constraint posed by land availability, especially in eastern China. FPV are solar photovoltaic (PV) stations that cover on open water bodies and therefore do not occupy land resources.

Do solar photovoltaic panels have social influence?

This research explores the social influence on consumers' purchase willingness or intention of solar photovoltaic panels in the online context. According to social influence theory, we identify two social influence dimensions: informational social influence and normative social influence.

How can suppliers promote solar PV panels?

Therefore, suppliers can cooperate with influencers (e.g., celebrities on Facebook) who are influential in the field of solar P.V. panels and invite them to introduce the information and benefits of solar P.V. panels on their page and encourage their followers to purchase.

Can solar photovoltaic projects help alleviate poverty in rural areas?

Nature Communications 11, Article number: 1969 (2020) Cite this article Since 2013, China has implemented a large-scale initiative to systematically deploy solar photovoltaic (PV) projects to alleviate poverty in rural areas.

Do community-level support and household resources affect photovoltaic adoption?

We find that structural opportunities provided by communities and households' own resource endowments have an additive effect on adoption. This highlights the need to consider both community-level support and household resources when evaluating photovoltaic adoption and energy justice.

One of the technical challenges with the recovery of valuable materials from end-of-life (EOL) photovoltaic (PV) modules for recycling is the liberation and separation of the ...

Solar photovoltaic panels are green products that can alleviate the threat of global warming, but the rate of adoption remains low. This research explores the social influence on ...

The achievement of temperature and heat management by combining the photovoltaic (PV) power generation and semiconductor thermoelectric refrigerators (TERs) is significant for ...

The impacts of the diode's ideal factor, the TERs' temperature span, and the PV panel's series internal resistance and shunt resistance on the system are revealed. The proposed model and ...

All solar panel strings connected in parallel have to feature the same voltage, and they also have to comply with the NEC 690.7, NEC 690.8(A)(1), and NEC 690.8(A)(2). Modules need to be the same model in all ...

The growth of fossil global energy consumption is accompanied by greenhouse gas emissions, which contribute to global warming. To cope with global climate change, the development of ...

By September 2023, the rooftop PV panels of Cainiao's bonded warehouses will increase to about 500,000 square meters. The warehouses will also incorporate "carbon reduction" into every ...

The temperature variation of PV panels under various light conditions of 1000 W/m<sup>2</sup> (Fig. 8 a), 2000 W/m<sup>2</sup> (Fig. 8 b), and 3000 W/m<sup>2</sup> (Fig. 8 c) was tested. During the experiment, we ...

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