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Title: Promotion of household solar power generation

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Should households adopt solar photovoltaic technology?

Author to whom correspondence should be addressed. In recent years, research on the intention to adopt solar photovoltaic technology has yielded rich results. However, controversy still exists regarding the key antecedents of households' intention to adopt solar photovoltaic technologies.

Is residential solar PV adoption a good idea?

Providing a systematic review on residential solar PV adoption by a new structure. Both the technical and economic potential of residential PV is substantial. High upfront costs, lack of recognition, and product problems are key barriers. Subsidies, peer effects, and business innovations are important in PV adoption.

How to promote photovoltaic technology?

For instance, appropriate economic subsidies, public education on photovoltaic technology, and promotion of green and eco-friendly awareness can all contribute to enhancing residents' willingness to adopt either directly or indirectly, thereby accelerating the promotion of the technology.

What are the benefits of solar power in rural China?

The additional income is not the only gain. The deployment of household PV has significantly advanced the transition to clean energy in rural China. The widespread installation has also reduced costs. Households in remote mountainous areas can now replace diesel generators with solar power systems.

Household distributed photovoltaic (PV) systems have emerged as an essential driver of urban-rural green development and a powerful engine of rural vitalization in China in recent years.

This research fills the research gap in the analysis of the promotion of household PV systems and farmers' low-carbon production behavior, providing scientific evidence to support ...

With the rise of photovoltaic industry, the concept of environmental protection and energy conservation is deeply heart. With the installation of solar energy systems, the use of solar mounting ...

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The promotion of solar photovoltaics in rural areas is of great importance in rural revitalization and the achievement of double carbon goals in China, but the adoption rate is low. This ...

This is because the topic of "household PV" involves developing and manufacturing specialized equipment such as new energy batteries and integrated installation of power generation ...

The promotion of solar photovoltaic (PV) in the residential sector is not only crucial for achieving sustainable development targets but also for facilitating household clean energy transition ...

Outstanding Ecological Benefits: Household Photovoltaic Power System operate without noise or pollution and integrate well with both land and buildings. Compared to traditional coal-fired ...

The promotion of domestic PV among residents and the generation of PV power can greatly help China achieve its double carbon targets as well as resolve the intermittent haze pollution ...

Ghosh et al. [18] evaluated the influence of environmental factors on household solar photovoltaic pro-environmental behavioral intentions based on meta-analysis. Their results not only ...

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