How is China s household solar energy acceptance

Overview

China has established a solar photovoltaics poverty alleviation program to help reduce rural poverty and environmental inequality. However, little is known about how the conflicts between governmental goals and soc. China is both the world's largest clean energy market and the world's largest polluter. Driven b. 2.1. OverviewThe previous literature on the factors that influence renewable energy adoption can be classified into two main types. The first type of literature. 3.1. Survey instrument and participantsThis research used stratified random sampling to extract pertinent samples from the 1251 respondents from various regions of China based o. 4.1. Analytic strategyTo test the dimensionality of all social-psychological variables, we first averaged the score of each variable based on the results of explora. 5.1. Summary of key findings and discussionBelow, we summarize the key findings based on “national vs. local” and “social norms vs. social.

Article Content

How do multidimensional energy justices work?: Specifying the ...

As a result, it was confirmed that energy justice has a role as a moderating variable in the acceptance of solar energy. It is noteworthy that the energy justice variables that showed moderating effects, restorative justice did not have a significant effect on the acceptance of solar energy in the regression analysis (Model 4).

National goals or sense of community? Exploring the social ...

The development and utilization of solar energy have become one of the effective ways to achieve the goal of “carbon neutrality and emission peak” in China. China has high ...

Household adoption modes of rooftop photovoltaic 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 ...

Assessing the effectiveness of China''s net-metering subsidies for ...

The mining sector contributes to 4–7 % of global GHG emissions, of which 1 % are from scope 1 and scope 2 emissions, caused by operations such as electricity consumption used for the mining process.

Unleashing the influencing factors of solar energy adoption to ...

To the best of the authors'' knowledge, this is the pioneering research conducted in China''s Henan province to establish public acceptance of solar energy (PSE). Following recent industrial growth and a large population increase, the region has significant energy-related difficulties, prompting urgent study into the public acceptance of solar energy systems.

Public acceptance of residential photovoltaic installation: A case ...

As a result, China''s cumulative installed capacity of residential PV increased from 0.9 GW in 2016 to 20.0 GW in 2020 , with an average growth rate exceeding 40.0 % ...

Evaluating the influence of environmental factors on household solar ...

Semantic Scholar extracted view of "Evaluating the influence of environmental factors on household solar PV pro-environmental behavioral intentions: A meta-analysis review" by Amartya Ghosh et al. ... Due to China''s massive usage of fossil fuels, climate change concerns have become serious challenges to the country''s sustainable development ...

Social acceptance of solar energy technologies in China—End

Energy policy.. - Oxford : Elsevier, ISSN 0301-4215, ZDB-ID 1862959. - Vol. 39.2011, 3, p. 1031-1037

A meta-analysis of residential PV adoption: the important role of ...

The adoption of residential photovoltaic systems (PV) is seen as an important part of the sustainable energy transition. To facilitate this process, it is crucial to identify the determinants of ...

The impact of household digital transformation on household energy ...

Carbon emissions from household consumption are an important part of global energy consumption, and household digital transformation is vital for realizing green and low−carbon development. Using data from the 2019 China Household Finance Survey, this study empirically examines the effect of household digital transformation on household energy …

China''s ''spare'' solar capacity offers climate and energy access ...

With the vast majority (80-85%) of solar manufacturing plants located in China, supporting deployment of ''spare'' solar capacity in the developing world presents a significant opportunity for China to deliver national gains, in addition to helping deliver global goals on development and climate change.

Unleashing the influencing factors of solar energy adoption to ...

This study intends to fill this gap in the literature by studying consumers'' buying intentions for solar energy in rural China for household purposes. Additionally, the study added to the theory ...

Public Acceptance of Solar Energy: A Perspective of Households ...

For Malaysia context, solar energy has been considered suitable due to its strategic geographical location. Implementation of solar energy would indicate a successful story, but it depends on how well solar energy been accepted by the public. The greater acceptance by the public, the wider usage of solar energy in daily transaction.

Equity in Renewable Energy Technology Adoption in China: a …

This review investigates how social-psychological and demographic factors influence the adoption of electric vehicles, photovoltaic panels, solar water heaters, and smart …

Yuan, X., Zuo, J. and Ma, C.Y. (2011) Social Acceptance of Solar Energy ...

Yuan, X., Zuo, J. and Ma, C.Y. (2011) Social Acceptance of Solar Energy Technologies in China—End Users'' Perspective. ... C.Y. (2011) Social Acceptance of Solar Energy Technologies in China—End Users'' Perspective. Energy Policy, 39, 1031-1036 ... Elevating public awareness of waste management at the household level is a cost effective ...

Social acceptance of solar energy technologies in China—End

Home; Publications; Social acceptance of solar energy technologies in China—End users'' perspective

An assessment of consumers'' willingness to utilize solar energy in ...

Finally, regarding the significance of the findings, though the analysis has been carried out in a particular area (China), however, the consequences of study findings suggest the occurrence of households'' intention factors to utilize solar energy. China has abundant solar energy resources and if used efficiently, the country can satisfy all ...

Distributed photovoltaic adoption in rural Shandong, China: status ...

Distributed photovoltaic systems (distributed PV) enable rural households to replace traditional energy sources, reduce their household carbon footprint, and generate additional income. Due …

(PDF) A Review on the Rural Household Energy in China From …

The variation trend of the number of solar cookers, the areas of solar water heaters and solar houses [Data source: (National Bureau of Statistics of China, 2018); National Bureau of Statistics of ...

Social acceptance of solar energy technologies in China--End …

This study intends to fill this gap in the literature by studying consumers'' buying intentions for solar energy in rural China for household purposes.

Farmers'' attitudes and adoption preferences toward household solar ...

China has abundant solar energy resources and the whole territory is divided into four (Class I, II, III, IV) belts according to total solar radiation of one year. Guangdong province has great potential in developing solar energy resources, which lies in Class III with annual sunshine hours of 2200 and radiation amount of 4200–5800 MJ/m 2 .

Social acceptance of solar energy technologies in China--End

Energy is essential to human beings. The increasing demand of energy has triggered the public scrutiny on the sustainability issues associated with the energy production and transmission. There have been a large number of studies focusing on reducing the environmental impacts associated with the ene...

Impoverished villagers'' solar PV adoption in rural China: A ...

The current global energy landscape is undergoing complex and profound changes [1, 2].The goal of universal access to sustainable energy is far from being achieved [3, 4] China, the energy crisis coexists with rural poverty [5, 6].Solar PV power, with its clean and renewable nature, has been recognized as a promising way to achieve environmental and …

Factors influencing the residence''s intention to adopt solar ...

Previous studies revealed insufficient coverage of residents'' acceptance and intention to adopt solar PV. Little is known about how solar PV adoption could help resolve climate change, unemployment and the energy crisis . Several studies have recently discussed the current and future status of solar energy [11, 17].

How do photovoltaic poverty alleviation projects relieve household ...

Energy poverty is a serious problem worldwide and has attracted the attention of policymakers. As a type of social welfare project, photovoltaic poverty alleviation projects (PPAPs) are expected to achieve high-quality poverty alleviation and an energy transformation in China. By the end of 2019, in China, the task of PPAP construction had been fully completed, with 26.36 ...

Solar energy adoption in rural China: A sequential decision ...

China is a country with rich solar energy resource. The use of solar water heaters (SWHs) is one of the most common applications of solar energy systems (Gautam et al., 2017).Currently, China''s solar energy use accounts for 70.6% of the globally installed capacity (Mauthner et al., 2015) spite the high total capacity, the adoption rate among Chinese ...

Social acceptance of solar energy technologies in China—End ...

DOI: 10.1016/J.ENPOL.2011.01.003 Corpus ID: 154310187; Social acceptance of solar energy technologies in China—End users'' perspective @article{Yuan2011SocialAO, title={Social acceptance of solar energy technologies in China—End users'' perspective}, author={Xueliang Yuan and Jian Zuo and Chunyuan Ma}, journal={Energy Policy}, year={2011}, volume={39}, ...

Influencing factors of consumers'' buying intention of solar energy: ...

This study intends to fill this gap in the literature by studying consumers'' buying intentions for solar energy in rural China for household purposes. Additionally, the study added to the theory of planned behavior by adding three new variables, namely, environmental knowledge, environmental concern, and beliefs about the benefits of solar ...

Social acceptance of solar energy technologies in China—End ...

As China is devoting to the development of solar energy, it is necessary to understand the current situation of local population''s social acceptance on solar energy. In this study, a questionnaire is designed to assess the social acceptance of solar energy technologies in China from end users'' perspective.

Social acceptance of solar energy technologies in China—End ...

As China is devoting to the development of solar energy, it is necessary to understand the current situation of local population''s social acceptance on solar energy. In this ...

The environmental impact of household domestic energy ...

Based on the environmental protection attributes of solar PV systems and their promising expectations for rural electrification and poverty eradication (Khan et al., 2018), the Chinese government launched PPAP as a large-scale precision poverty alleviation program in 2013.The Chinese government expects solar PV systems to improve the environment and the ...

Public acceptance of residential photovoltaic ...

The findings suggest that China''s recent residential PV installation policies should increase users'' trust and guide the future decline of subsidy policy.

Social acceptance of solar energy technologies in China--End ...

Renewable energy sources such as solar energy have been prompted to mitigate these environmental impacts. This research adopted a quantitative approach to investigate the social acceptance of solar energy technologies from end users'' perspective in Shandong province, China. A large scale questionnaire survey was conducted.

Household adoption modes of rooftop photovoltaic in rural China ...

China''s social system influences household solar adoption, intertwining inequality and injustice with lower-level government bureaucracy behaviors. The background of ...

Status, trend, economic and environmental impacts of household solar ...

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. Although researchers have investigated the huge power generation potential of the rooftop system by various estimation techniques and case studies, few has looked deeper into ...

Determinants of rural household clean energy adoption intention ...

Third, similar to other studies that applied energy ladder and stacking models (Liao et al., 2019;Ma et al., 2021;Meried, 2021; Li et al., 2022), our study found that household income and ...

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