Acceptance of hidden photovoltaic support works

Does information social influence affect willingness to adopt solar PV panels?
Information social influence has more positive effectson willingness to adopt solar P.V. panels. In addition,individuals who perceive high monetary benefits tend to receive more normative social influence and live up to peers' expectations. Hence,we propose:

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.

Do social factors influence solar PV adoption?
Many studies also revealed that social factors are critical enabling factorsfor the adoption of solar P.V. panels,such as peer effects or subjective norm (Aggarwal et al. 2019b; Bollinger and Gillingham 2012; Mundaca and Samahita 2020; Noll et al. 2014) and social status (J. Palm and Tengvard 2017).

Does emotional social support influence a person's decision to buy solar panels?
H2d: Emotional social support has a positive relationship with normative social influence. In the context of high involvement solar P.V. panels, individuals' intention to buy them is influenced by important peers (Aggarwal et al. 2019b; Mundaca and Samahita 2020; Noll et al. 2014).

Do environmental concerns influence the willingness to buy solar PV panels?
Therefore,we hypothesize: H6a: Environmental concerns positively moderatethe relationship between informational social influence and willingness to buy the solar P.V. panels such that the positive relationship is stronger when environmental concerns are higher.

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.

China, as the world"s largest power generator, faces challenges owing to its coal-based electricity mix, contributing significantly to greenhouse gas emissions [1] 2022, ...

The performance status of a grid-connected photovoltaic (GCPV) system is denoted by performance indices, namely performance ratio, capacity factor, and even through power acceptance ratio (AR), as ...

Specifically, two research questions were addressed: (1) What are the attributes that determine the social

acceptance of utility-scale solar PV projects in alpine regions, and (2) ...

Residential photovoltaics (PV) presents an effective means of achieving low-carbon development, owing to its installation flexibility and resource-saving properties. To explore the residents" ...

Two studies were conducted to investigate the public"s acceptance of photovoltaic (PV) installations on buildings in Freiburg i. Br. Germany. The first study found that PV module ...

The acceptance by the potential users plays an important role and is reflected in three main dimensions: (1) socio-political acceptance by the public, key stakeholders and ...

factor to be considered in large scale acceptance (Heras-Saizarbitoria et al., 2013). The Figure3. Conceptual frameworkofthe study Intention to use Usefulness of solar solar PV PV Ease of ...

The proposed work will be very much helpful to the designers to get an overview of stress, strain and structural deformation characteristics in photovoltaic industry. View full-text ...

Three dimensions of acceptance identified in the literature are reflected in the mechanism: (1) socio-political acceptance by the public, key stakeholders and policy-makers, ...

Improving angular acceptance of stationary low-concentration photovoltaic compound parabolic concentrators using acrylic lens-walled structure Guiqiang Li, Gang Pei, Yuehong Su, Yunyun ...

Therefore, future work can explore the public acceptance of PV energy systems in different contexts, such as large-scale solar power plants or commercial installations, and ...

This study investigates public acceptance of photovoltaic (PV) solar energy in Myanmar using the Theory of Planned Behavior (TPB), focusing on various demographic groups in 2023. The 337 ...

In this work, a thermal 3D finite-element model is used to investigate the possibilities of flat-plate heat-sinks at concentration ratios not tested to date, i.e. 2000-10,000 ...

The results show that: (1) according to the general requirements of 4 rows and 5 columns fixed photovoltaic support, the typical permanent load of the PV support is 4679.4 N, the wind load being 1 ...

Download Citation | On Dec 1, 2023, Elena Lucchi and others published Social acceptance of photovoltaic systems in heritage buildings and landscapes: Exploring barriers, benefits, drivers, ...

The research is structured in the following steps: (i) examination of existing criteria for acceptable use of BIPV on heritage sites; (ii) examination of the theory of architectural preservation and ...

o To conceptualize and assess the social and market acceptance of the innovative SunHorizon technologies (PVs and HPs) in Europe, in order to identify which aspects need more focus for ...

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