

What is acceptance or attitudes towards energy technologies?

More specifically, acceptance or attitudes towards energy technologies in general are usually examined at a public or national level, which are then compared with the local level, namely acceptance or attitudes towards energy technologies near the place where people live (e.g., a specific town).

Why is technology acceptance important?

The widespread use of sustainable energy technologies is a key element in the transformation of the energy system from fossil-based to zero-carbon. In line with this, technology acceptance is of great importance as resistance from the public can slow down or hinder the construction of energy technology projects.

Are emerging energy technologies socially accepted?

In the current study, we aimed to examine the social acceptance of three emerging energy technologies: stationary battery storage, biofuel production plants and hydrogen refueling stations. In light of this, we assessed public concerns, acceptance (general and local), trust in stakeholders, as well as financial support for the technologies.

Does public acceptance of energy technologies predict financial support?

As the majority of studies focuses predominantly on the predictors of public acceptance of energy technologies, future research could explore whether similar factors, such as perceived benefits of the technology, are associated with attitudes towards financial support of energy technologies.

Are energy technologies socially accepted in Germany?

The current study assesses the social acceptance of three energy technologies relevant for the German energy transition: stationary battery storage, biofuel production plants and hydrogen fuel station. An online survey was conducted to examine the public's general and local acceptance of energy technologies.

What factors influence the acceptance of energy technologies?

Previous studies on the acceptance of energy technologies have shown that factors such as perceived risks and benefits, trust, perceived fairness and personal norms influence attitudes and behaviors towards technologies [57,58,59,60,61]. In the following, we will shortly introduce the factors examined in the current study.

In a developing country such as Malaysia, studies of determinants which influence residential consumers of the Battery Energy Storage System (BESS) are limited. This ...

WASHINGTON, D.C.--The U.S. Department of Energy's (DOE) Office of Electricity (OE) today announced the launch of the Energy Storage Innovations Prize Round 2. This one-phase competition is a call for new, innovative, and promising energy storage solutions to address niche markets and to grow a community of energy storage innovators.

Highlights o Examines the social acceptability of energy storage technologies and governance among UK public. o Awareness of the need for storage was generally low ...

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The definition of journal acceptance rate is the percentage of all articles submitted to Journal of Energy Storage that was accepted for publication. Based on the Journal Acceptance Rate Feedback System database, the latest acceptance rate of Journal of Energy Storage is 95.7%.

The role of energy storage as an effective technique for supporting energy supply is impressive because energy storage systems can be directly connected to the grid as stand-alone solutions to help balance ...

here on public perceptions of energy storage and associated policy relevance. 2.2. Studies of public perceptions of energy storage While Taylor et al. (2013) set out the likely issues relating to public acceptance of energy storage technologies, their assessment is based on inference from the wider knowledge base on energy acceptance issues.

Social acceptance of hydrogen technology related to large-scale infrastructure was investigated in the Store& Go study, analysing the acceptance of the energy storage technology power-to-gas in a choice experiment survey with 2000 respondents in Germany, Austria, Italy and Switzerland.

Energy Storage Systems (ESS) 1 1.1 Introduction 2 1.2 Types of ESS Technologies 3 ... technology for Singapore in the near term. It also serves as a comprehensive guide for those who ... Energy Storage Systems ESS Factory Acceptance Test FAT Hertz Hz Intermittent Generation Sources IGS Kilovolt-amperes kVA Kilowatt-peak kWp Licensed Electrical ...

Seasonal thermal energy storage (STES) is a novel technology that can play an important role in decarbonizing energy systems. It offers a solution to the seasonality of renewable energy production and demand [4, 5]. People consume heat in winter and require cooling in summer, so energy systems must offer storage to overcome this challenge of seasonality.

This Energy Storage SRM responds to the Energy Storage Strategic Plan periodic update requirement of the Better Energy Storage Technology (BEST) section of the Energy Policy Act of 2020 (42 U.S.C. &#167; 17232(b)(5)).

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