

National attitude towards solar power generation

Does knowledge influence consumer attitudes towards solar energy technologies?

The analysis of twelve studies, representing 50 % of the reviewed research, underscores the critical role of knowledge, awareness creation, and information in the acceptance of solar energy technologies. Hasheem et al. demonstrated that knowledge significantly impacts consumer attitudes towards solar energy acceptance.

Why is public acceptance of solar energy important?

In the context of solar energy technologies, public acceptance of the technology is imperative to advance towards renewable energy transitions. Pressure to transition from fossil fuels to cleaner energy sources has intensified due to worsening climate impacts, unsustainable energy consumption patterns, and rising energy costs [.,].

What do people think about solar energy?

Public Attitudes Tracker - Wave 1. London, Department of Energy and Climate Change. The DECC (2012) study suggests that large majorities of the UK population hold positive attitudes towards the ideas of generating electricity using solar energy, off-shore wind energy, and ocean energy.

How does public knowledge influence social acceptance of solar energy?

Public knowledge and awareness levels were found to influence willingness to accept the technology. Shi et al. noted that social interaction positively affects the willingness of rural residents to adopt solar energy. Cheam et al. identified knowledge as the second most significant factor influencing social acceptance of solar PV.

Cultures influence environmental preferences and attitudes towards energy consumption [13], [14]. National cultures also affect the formation of people's sense of responsibility towards the ...

Public sentiment shapes the future of renewable energy adoption, influencing policies and projects nationwide. Using over 8 million X (Twitter) posts from 2013 to 2022, we measure "solar ...

o General attitudes towards solar energy development are positive: 77% of respondents support the development of solar energy in their local area, while 55% say they have become more ...

Perceived government incentives moderated the relationship between the respondents' attitudes and behavioral intention toward using solar energy citizenship services. These findings ...

Hasheem et al. [19] demonstrated that knowledge significantly impacts consumer attitudes towards solar energy acceptance. Alsabbagh [50] identified ignorance as a barrier to the acceptance ...

How the UK public feels about renewable energy Key Points People's attitudes towards renewables are a function of their beliefs about associated impacts - environmental, aesthetic, ...

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The global shift toward renewable energy has positioned solar power as a critical driver of socioeconomic transformation. As countries transition from fossil fuels to sustainable energy ...

Consumer attitudes towards domestic solar energy systems often pose barriers to widespread solar adoption. What can be done to help people understand the local benefits of solar?

The DESNZ Public Attitudes Tracker is a nationally representative annual survey of adults (aged 16+) in the UK that tracks public awareness, attitudes and behaviours relating to the policies of ...

Solar PV capacity around the world also grew ten-fold between 2014 and 2024 (National Renewable Energy Laboratory (NREL) 2024). We included one paper from 2025 (Rand et al 2025), ...

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