

Social Practice Survey on Solar Power Generation

What determinants shape community acceptance of large-scale solar farms?

We present a case study of the UK's first 'nationally significant' solar farm. We identify 28 determinants shaping community acceptance of large-scale solar farms. Key issues are 'green-on-green'; scale; place attachment; policy; process; justice. We also propose a novel 'relational' understanding of community acceptance.

Are community responses to solar farms determinants?

Thus, there remains a research gap on determinants shaping actual community responses to solar farms, which is important as public support has been found to shift when people are asked to think concretely rather than abstractly about the impacts of solar energy projects (Satterlin and Siegrist, 2017).

Does policy influence community acceptance of solar farms?

Finally, we highlight the role of policy and process in shaping community acceptance of solar farms. We find that people's broader views on energy policy feed into their views on specific infrastructure projects such as Cleve Hill, which we describe as a 'relational' understanding of community acceptance.

Does community accept a large-scale solar farm?

In doing so, it provides the first empirical study of community acceptance of a large-scale solar farm in a developed country context, building on existing studies which use hypothetical approaches such as choice experiments, or surveys which measure general attitudes rather than responses to specific developments.

Do solar farms get planning approval in a densely populated country?

Though not focusing on one empirical case, Roddis et al. (2018) provide a first attempt at understanding community acceptance of solar farms in a densely populated, developed country. They analyse planning applications for solar farms in Great Britain (GB) to identify types of project that are more or less likely to gain planning approval.

Are solar farms 'relational' or 'absolute'?

This indicates that community acceptance of solar farms is 'relational' rather than absolute; by this we mean it is informed by the deployment of other energy technologies and the wider energy policy landscape, not only the specific solar farm.

The demand for sustainable energy is increasingly urgent to mitigate global warming which has been exacerbated by the extensive use of fossil fuels. Solar energy has ...

The IET Code of Practice is a valuable resource for anyone involved in grid-connected solar PV systems in the UK. By following its recommendations, professionals can ...

Determining significance in social impact assessments (SIA) by applying both ...

Generation Solar is a Citizen Science Initiative in the energy field that takes advantage of the participation of citizens to build an open database of distributed solar PV ...

3 ???· The response burden of a survey is calculated by multiplying the number of ...

Renewable energy plays a significant role in achieving energy savings and emission reduction. As a sustainable and environmental friendly renewable energy power ...

Figure (1): Schematic diagram of PV power generation system [10] .. 2.SOLAR POWER GENERATION 2.1 The Types Of Solar Power Plants Solar energy falls on the surface of the ...

A questionnaire survey with 1247 respondents to determine the strongest psychological and ...

Investigating energy use behaviour among Solar 2 Home System adopters through energy ladder and social practice lens. 3 Abstract 4 Solar Home Systems (SHSs) and other off-grid solutions ...

4 ???· This study investigates the social acceptance of integrated photovoltaic (IPV) systems in heritage and landscape contexts, focusing on Italian stakeholders in the construction sector. ...

This chapter assesses the utility of the energy justice framework to study and understand social acceptance of renewable energy in case studies in the Global South (wind, ...

3 ???· The response burden of a survey is calculated by multiplying the number of responses to the survey in each wave by the median time spent completing the survey per wave (Figure 6).

Through content analysis of 816 online planning responses, supplemented with 12 qualitative interviews and participant observation, we build on the conceptual framework ...

This article aims to understand the impacts and barriers of solar adoption, as there's a growing need for solar energy to mitigate climate change and address social disparities.

Generation Solar is a Citizen Science Initiative in the energy field that takes ...

In this paper, we apply the Social Practice Theory (SPT) and the energy and solar energy ladder framework to analyse energy consumption and the changing social ...

A questionnaire survey with 1247 respondents to determine the strongest psychological and social factors of

local and general acceptance of the nearby implementation of three different ...

Through content analysis of 816 online planning responses, supplemented ...

This chapter assesses the utility of the energy justice framework to study and ...

For China, some researchers have also assessed the PV power generation potential. He et al. [43] utilized 10-year hourly solar irradiation data from 2001 to 2010 from ...

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