

Social capital investment in photovoltaic panels

Are solar photovoltaics ready to power a sustainable future?

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Are low- and moderate-income households more likely to adopt rooftop solar photovoltaics?

You have full access to this article via your institution. Low- and moderate-income (LMI) households are less likely to adopt rooftop solar photovoltaics (PVs) than higher-income households in the United States.

How does solar PV adoption affect socioeconomic disparities?

Others have shown how solar PV adoption both reflects and reinforces existing socioeconomic disparities (Lacey-Barnacle, 2020; Balta-Ozkan et al., 2021) and how increased solar deployment can also result in uneven or inequitable market dynamics, banking and financing patterns, and resource deployment (Knox et al., 2022; Sovacool et al. 2022).

Do solar photovoltaic panels increase adoption rates in California?

We study the diffusion of solar photovoltaic panels in California and find that at the average number of owner-occupied homes in a zip code, an additional installation increases the probability of an adoption in the zip code by 0.78 percentage points.

Why is it important to scale up solar PV manufacturing capacities?

It is important to scale up solar PV manufacturing capacities as well as ensure supply chain resilience and energy security; this would push companies to build capacities in a geographically distributed manner and reduce the reliance on one country/region.

Can spatial inequities be built into grid access for solar photovoltaics?

Brockway et al. (2021) found that spatial inequities can even become built into grid access for solar in parts of the United States like California, where grid limits reduce connection possibilities for solar photovoltaics and also exacerbate existing inequities. 4.3. Interspecies inequity (between humans and non-humans)

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