

# The actual situation of household solar power generation

Could solar power be the future of energy?

A 2021 study by the National Renewable Energy Laboratory (NREL) projected that 40% of all power generation in the U.S. could come from solar by 2035. Solar's current trends and forecasts look promising, with photovoltaic (PV) installations playing a major role in solving energy problems like carbon pollution and energy dependence.

How does solar PV affect household adoption?

Qureshi et al. claim that a high level of generation enables households to switch more appliances to using solar PV, consequently increasing the likelihood of adoption. Panos and Margelous suggest that a household's ability to efficiently use energy generated from solar PV also plays a role in adoption.

Do high energy prices affect solar PV adoption?

However, the net value or overall economic benefit potentially brought by solar energy is closely linked to prevailing energy prices, with evidence suggesting that high energy prices positively affect the adoption of solar PV.

Does a household use solar PV?

Panos and Margelous suggest that a household's ability to efficiently use energy generated from solar PV also plays a role in adoption. Komatsu et al. conducted a study in Bangladesh and found that households with installed batteries are more likely to use solar PV as it can provide the opportunity to store energy for later use. 3.2.7.

Are solar energy uptake rates underestimated?

Historical projections of energy generation have consistently underestimated uptake rates of solar energy<sup>16,17</sup>. For example, only a year after the publication of the 2020 World Energy Outlook (WEO), the IEA's "Stated policies scenario" has been revised strongly in favour of solar energy.

What are the disadvantages of solar energy?

Solar energy aligns with many policy objectives (clean air, poverty alleviation, energy security<sup>54</sup>). It also has disadvantages for some of the players involved, as it leads to rapid economic and industrial change. Solar and wind power have a low energy density compared to alternatives.

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