

Difficulty in getting subsidies for household solar power generation

How did China's solar subsidy phase-out affect energy consumption?

The announcement of subsidy phase-out led to a larger energy "rebound effect". They adjusted electricity usage patterns to maximize revenue from solar electricity. With the impending post-subsidy era, the Chinese government has initiated significant reductions in household photovoltaic (PV) subsidies.

What are the effects of phasing out subsidies for PV generation?

The abrupt phasing out of subsidies for PV generation has resulted in a rush to construct numerous PV generation projects, leading to an explosive growth in the scale of photovoltaic installations. This phenomenon has negative consequences (i.e., solar rush) in the solar PV market.

How do solar energy subsidies work?

Residents derive income from generous PV generation subsidies, which directly subsidize solar electricity generated by their photovoltaic systems. On the other hand, capital investment subsidies are provided for solar PV systems, leading to lower prices through subsidies (D'Adamo et al., 2022).

What is a government subsidy for residential photovoltaics?

Policy variables. A government subsidy (Subsidy) for residential photovoltaics mainly refers to power generation subsidies, that is, a monetary reward for every kilowatt-hour of electricity generated by solar panels. The subsidy standards for each household are obtained from the National Development and Reform Commission (NDRC).

Why do countries reduce subsidies for photovoltaic generation?

With the rapid decline in the price of PV systems observed in recent years, countries have begun to reduce subsidies for photovoltaic generation, especially for utility-scale plants. However, distributed generation systems also remain heavily dependent on incentive policies.

Does PV generation subsidy phase-out affect total electricity consumption?

The results of our study indicate that there is a larger rebound effect on total electricity consumption during the announcement of the PV generation subsidy phase-out. However, this effect gradually weakens over time as the policy is implemented.

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