Solar power generation and household electricity sharing

Abstract--This paper studies rooftop solar photovoltaic (PV) investment decisions of households. Two cases are considered: the status quo of net-metering, and (b) a new sharing economy model.

Pairing an empirical household-level dataset spanning United States geographies together with modeled hourly energy demand curves, we show that rooftop solar reduces energy burden ...

Australian households will be able to access free electricity for three hours every day, in an effort to encourage energy use when excess solar power ...

In a decentralized storage network, connected homes share power through a sophisticated yet straightforward system. When your solar panels ...

These data include electricity generated from both utility-scale (those of 1 megawatt or more generating capacity) and small-scale (less than 1 ...

Through a deterministic techno-economic analysis based on high-resolution real-world demand data from 3,594 households, we analyse how the configuration of a solar energy community ...

Amid a struggle to power AI data centers. By Wolf Richter for WOLF STREET. The quantity of electricity generated in the US by all sources, from natural gas to rooftop solar, rose by 3.0% in ...

Community solar gives customers who cannot install solar on their own property a way to access solar energy. Customers who do not own their homes, do not have space to install solar, or do not have ...