

Survey on user demand for rooftop photovoltaic panels

Is rooftop solar PV a viable alternative to residential electricity demand?

The results show that current global rooftop potential is 1.5 times the residential electricity demand. The market penetration of rooftop solar PV is much more dependent on socio-economic and policy factors than on the biophysical potential. Several aspects require further discussion.

Do rooftop photovoltaic solar panels affect urban surface energy budgets?

Our study also reveals that rooftop photovoltaic solar panels significantly alter urban surface energy budgets, near-surface meteorological fields, urban boundary layer dynamics and sea breeze circulations.

How big is the potential for rooftop photovoltaic?

The global suitable roof surface area was assessed at 36 billion m², or 4.7 m² capita⁻¹, leading to a potential for rooftop photovoltaic of 8.3 PWh y⁻¹, roughly 1.5 times the 2015 global residential electricity demand.

Can Geographic Information Systems be used to estimate rooftop solar PV potential?

Geographic information systems-based estimation is justified as a promising approach, especially it can be combined with LiDAR to build robust/powerful approaches to provide high-resolution estimates of rooftop solar PV potential.

How can we increase the acceptance of rooftop solar PV?

Develop and enact capacity building campaigns focused on installation/management/end-of-use of household solar PV. Information campaigns. Create public educational campaigns to increase the acceptance of BIPV. Approximately 100 million households rely on rooftop solar PV by 2030 - Analysis and key findings.

How much electricity does a rooftop photovoltaic use?

The rooftop photovoltaic cost-supply curves show a potential of 8.3 PWh y⁻¹ in 2015 on a global suitable roof area of 36 billion m² and cost levels of 0.09-0.5 \$ kWh⁻¹. The total potential of 8.3 PWh y⁻¹ is roughly 1.5 times the 2015 global residential electricity demand.

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