

Solar panels are an increasingly efficient, cost-effective, and higher-power-density renewable-energy source, though most users still partially depend on the grid.

We provide updated estimates of utility-scale PVs power and energy densities based on empirical analysis of more than 90% of all utility-scale PV plants built in the United States through 2019.

Solar photovoltaic (PV) power generation, known for its affordability and environmental benefits, is a key component of the global energy supply. However, the lack of comprehensive, ...

This study proposes a comprehensive optimization framework for determining the optimal configuration of a photovoltaic (PV) system to minimize project lifetime costs while increasing the ...

This study provides the first major update of utility-scale PV's power and energy densities in nearly a decade. It is based on a large, nearly complete sample of ground-mounted PV plants ...

Based on empirical observations drawn from a large, nearly complete sample of utility-scale PV plants built in the United States through 2019, we find that both power and energy density have increased ...

Future year projections are derived from bottom-up benchmarking of PV CAPEX and bottom-up engineering analysis of O&M costs. The year 2023 reflects the most recent historical data, derived ...

In this paper, we leverage data from the newly released US Large-Scale Solar Photovoltaic Database to examine recent trends in large-scale solar photovoltaic land use.

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