



Rural solar photovoltaic power generation capacity expansion

In 2024, generators added a record 30 GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with 32.5 GW of new utility-scale solar ...

In short, agrivoltaics is a winning solution. Although still nascent, agrivoltaics installations have expanded rapidly since 2020, growing from 27,000 acres with 4.5 gigawatts (GW) of capacity in 2020 to ...

Department of Energy research projects solar energy to rise from 4% of our nation's total energy production to 45% by 2050, potentially requiring nearly 10.4 million acres of land in solar...

In annual growth terms, an almost threefold rise in yearly solar PV capacity additions is needed by 2030 (to 270 GW per year) and a fourfold rise by 2050 (to 372 GW per year), compared to current levels (94 GW added in ...

Results from the capacity expansion analysis show that approximately 85% of new power capacity deployed in the Western US by 2050, under either a high renewables or business-as-usual...

As solar capacity has more than doubled since 2020 and is increasingly coming from utility-scale solar, it's estimated that 1.25 million acres of farmland have been converted for use in solar production.

This Market Intel will dive deeper into solar energy's expansion and economic impacts, particularly in rural America, where there is great tension between private property rights and concerns over the loss of ...

As efforts to conserve farmland intersects with the growth in renewable energy, agrivoltaics emerges as a solution to integrate agriculture and solar photovoltaic (PV) infrastructure.

US climate policies and energy markets now provide especially strong incentives for expanding solar photovoltaic (PV) capacity. As a result, conversion of agricultural and forested lands to utility-scale ...

This study examines land cover surrounding rural solar and wind installation sites from 2009-20. It explores regional patterns in the distribution of land cover and estimates the amount of land directly affected by ...



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