



Photovoltaic solar power generation trends

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Each quarter, the National Renewable Energy Laboratory conducts the Quarterly Solar Industry Update, a presentation of technical trends within the solar industry.

Lawrence Berkeley National Laboratory compiled and synthesized empirical data on the U.S. utility-scale solar sector. The focus is on ground-mounted systems larger than 5M AC, including ...

o Utility-scale solar (including PV and CSP technologies) and C& I PV electricity production dropped by 46% from its summer peak (July 2024) to its winter low (December 2024), ...

While our commercial and community solar outlooks have risen slightly due to enhanced project pipeline visibility, we've downgraded our residential outlook as tight module availability is ...

Across all regions, developing a skilled workforce and setting ambitious solar and storage targets are essential tasks. In these times of political uncertainty, low-cost solar power could turn into ...

Explore the future of solar in 2025--key trends, new tech, and policies driving global clean energy growth.

In our STEO forecast, utility-scale solar is the fastest-growing source of electricity generation in the United States, increasing from 290 BkWh in 2025 to 424 BkWh by 2027. Almost 70 ...

The IEA PVPS Trends in Photovoltaic Applications 2025 report provides comprehensive data and analysis on global PV deployment, technology, and market evolution from 1992 to 2024.

Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity expansion. Low module costs, relatively efficient permitting processes ...

The solar photovoltaic market size crossed USD 323.5 billion in 2025 and is expected to grow at a CAGR of



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8.1% from 2026 to 2035, driven by integration of solar PV across agriculture and business ...

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