

Explore the latest solar panel technology, new solar panel technology, and solar energy technology trends improving efficiency.

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 ...

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 ...

We expect the combined share of generation from solar power and wind power to rise from about 18% in 2025 to about 21% in 2027. In our STEO forecast, utility-scale solar is the fastest ...

This review paper provides a comprehensive analysis of solar photovoltaics, covering key aspects such as the historical development of PV technology, different photovoltaic cell types, ...

The past decade has seen exceptional progress in solar photovoltaics. Over 700 gigawatts of solar photovoltaic modules were installed in 2025, more than ten times the 56 gigawatts ...

o In 2024, between 554 GW. dc. and 602 GW. dc. of PV were added globally, bringing the cumulative installed capacity to 2.2 TW. dc. o China continued to dominate the global market, ...

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

Photovoltaic (PV) solar accounted for 56% of all new electricity-generating capacity additions in the first half of 2025, remaining the dominant form of new electricity-generating capacity ...

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.



Trends in Photovoltaic Solar Power Generation

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