



# Latest progress in solar photovoltaic power generation

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.

Efficiency, the proportion of sunlight that becomes electricity, remains a central focus of solar innovation. Next-generation tandem cells One of the most exciting developments in solar ...

Discover the latest breakthroughs in solar power technology, from high-efficiency perovskite and tandem cells to smart AI-driven systems and advanced energy storage solutions.

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 ...

Global solar installations are on track for another record year. In the first six months of 2025, the world added 380 GW of new solar capacity -- 64% higher than during the same period in ...

Photovoltaic (PV) technology has become a cornerstone in the global transition to renewable energy. This review provides a comprehensive analysis of recent advancements in PV ...

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 ...

Discover how last year set new records in solar power generation, marking a significant milestone in renewable energy advancements.

Today, the latest solar panel technology advancements have led to panels achieving conversion efficiencies of over 20%, with some even reaching 25%. This means that solar PV ...

Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the ...



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