



Latest achievements in solar power generation

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These advances are making solar technology more powerful, affordable, and versatile, accelerating the adoption of solar energy technology across residential, commercial, and utility-scale ...

IEA PVPS has released its latest Trends in Photovoltaic Applications 2025 report, revealing that the world's cumulative installed PV capacity surpassed 2 260 GW by the end of 2024, marking a 29% ...

It presents the latest forecasts and analysis, based on recent policy and market developments, while also exploring key challenges and opportunities facing the sector.

With innovations like perovskite and bifacial panels, favorable regulations such as the IRA, and leadership from states like California and Texas, solar panel and storage technologies are ...

China's solar power generation grew more than 20-fold over the past decade, and its solar and wind farms now have enough capacity to power the entire United States. China's ...

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.

Research focusing on the keys to improving the energy efficiency of solar photovoltaics and managing the end-of-life issue, more specifically in materials recycling and reusing, is emerging ...

Recent advancements in solar photovoltaic (PV) technologies have significantly enhanced the efficiency, materials, and applications of solar energy systems, driving the transition towards more sustainable ...

In 2024, solar contributed 267 GWac (309-357 GWdc), or 64% of new generation capacity, in China, and cumulative solar capacity reached 852 GWac (1,000-1,048 GWdc), or 26% of ...



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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 ...

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