



Major breakthrough in solar power generation

Experts are working to improve the power conversion rate of solar technology. Innovations such as panels using perovskites are showing promising results. A World Economic ...

Solar cells that combine traditional silicon with cutting-edge perovskites could push the efficiency of solar panels to new heights.

Solar technology is evolving quickly. Our 2025 guide explains the latest advances like TOPCon, HJT, and back contact panels. Learn how each performs in efficiency, durability, and real ...

Perovskites are a family of minerals that can convert sunlight into electricity with high efficiency and at low cost. But durability and degradation have been substantial hurdles to ...

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 ...

Solar power is no longer inching forward, it is compounding. In laboratories and early commercial lines, scientists are stacking new materials, coatings, and designs that push panels far beyond ...

Multiple teams of scientists have achieved a breakthrough in boosting the efficiency of solar panels due to a new material - perovskite. Their current key milestone of 30% energy efficiency has been ...

Researchers have devised a new kind of film that can help improve the performance of next-generation solar cells, according to Tech Xplore. Perovskite technology is the next big thing in ...

To many, the continued growth of renewables now seems unstoppable--a prospect that has led Science to name the renewable energy surge its 2025 Breakthrough of the Year. Small ...

As of January 2025, the solar energy sector is experiencing several groundbreaking advancements poised to enhance efficiency, sustainability, and global energy accessibility. Here are some of the ...



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