

# New breakthrough in solar photovoltaic power generation

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

Scientists at Oxford University Physics Department have developed a revolutionary approach which could generate increasing amounts of solar electricity without the need for silicon ...

From 34.6%-efficient perovskite solar cells to floating offshore wind farms accessing deep-water resources, these breakthrough technologies are making clean energy more efficient, ...

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 ...

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.

New research is making solar panels that have higher energy output and last longer than expected that help move the solar revolution forward.

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 ...

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

While traditional crystalline silicon panels still dominate the market, new technologies like tandem cells and smart PV systems are poised to drive the next wave of solar adoption, pushing ...

Solar panel technology advances include greater solar cell efficiency and the use of new and more abundant solar panel materials.

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