

New solar cells and modules



Overview

In the new nature paper, a team of researchers at the energy giant LONGi has reported a new tandem solar cell that combines silicon and perovskite materials. Thanks to their improved sunlight harvesting, the new perovskite-silicon tandem has achieved a world record 33.89%. Improvements in cell performance, the use of novel materials like perovskites, and flexible, adaptable designs are fundamentally transforming how solar energy is generated and deployed. GreenLancer has worked alongside thousands of solar contractors since 2013, observing these breakthroughs. We explore the nine most exciting developments in the solar industry in 2025, from indoor solar panels to 'two-for-one' fission. Ongoing breakthroughs in materials, design, integration with storage and smart systems, and entirely new concepts are making solar more efficient, more versatile, and more accessible. Over the last few years, there has been an explosion in new solar technology, with next-generation panels featuring a variety of advanced PV cell designs and innovations that help boost efficiency, reduce degradation, and improve reliability. What are tandem solar cells?

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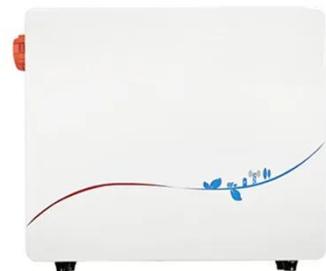
7 New Solar Panel Technology Trends for 2026

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

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



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Latest Solar Panel Technology

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New solar panel technology shaping 2026 and beyond

Solar panel technology in 2026 is advancing fast with tandem cells, bifacial panels, smart systems, and higher efficiency designs.

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This New Solar Cell Converts Sunlight Like Never Before

With an efficiency that pushes the boundaries of what was once thought possible, the Longi team has paved the way for a new generation of solar panels that could one day power entire cities with sunlight ...

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The best new solar panel technology [Top 9 in 2025]

We explore the nine most exciting developments in the solar industry in 2025, from indoor solar panels to 'two-for-one' fission.

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Explore 2025's solar tech--from bifacial to perovskite--and what's next in the

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Solar Panel Technology 2025: Breakthroughs, Trends & What Really Works

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-world applications.

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Lower cost
larger system

Verified Supplier

20Kwh

30Kwh



New solar cells break efficiency record - they could eventually

Current commercially available solar panels convert about 20-22% of sunlight into electrical power. However, new research published in Nature has shown that future solar panels could reach

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