

New Technologies for Photovoltaic Solar Panels

The latest in rooftop solar panel technology is nearly 25% efficient. But does having the most efficient panel really make a difference? ... In a recent development, Jinko Solar's new Tiger ...

Researchers at MIT have developed a new ultrathin solar cell that can adhere to different surfaces providing power on the go, reports Clara McCourt for Boston . "The new technology surpasses conventional solar ...

The new record-breaking tandem cells can capture an additional 60% of solar energy. This means fewer panels are needed to produce the same energy, reducing installation costs and the land...

When talking about solar technology, most people think about one type of solar panel which is crystalline silicon (c-Si) technology. While this is the most popular technology, ...

Enter "tandem solar cells", the new generation in solar technology. They can convert a much greater portion of sunlight into electricity than conventional solar cells. The technology promises to fast-track the global ...

Among them are new materials, new ways of building solar panels, and new places to put them. Let's look at some of the recent advancements, why they matter, and how long it will take for them to have an impact on the world.

Popular Science reporter Andrew Paul writes that MIT researchers have developed a new ultra-thin solar cell that is one-hundredth the weight of conventional panels and could transform almost any surface into a ...

We examine the latest solar panels and explain how advanced PV cell technologies help improve performance and efficiency, plus we highlight the most advanced panels from the leading manufacturers. Learn about ...

MIT researchers have developed a new water-free system that uses static electricity to clear dust from solar panels, reports Miriam Fauzia for The Daily Beast. "By using this technique, we can recover up to 95 percent of ...

PERC solar cell technology currently sits in the first place, featuring the highest market share in the solar industry at 75%, while HJT solar cell technology started to become ...

Overview An MIT assessment of solar energy technologies concludes that today's widely used crystalline silicon technology is efficient and reliable and could feasibly be deployed at the large scale needed to mitigate climate change by ...

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For a long time, the solar panel market was dominated by China because of that country's control of the silicon supply chain. But the solar-panel tides may be turning, as Japan has created a solar ...

The solar energy world is ready for a revolution. Scientists are racing to develop a new type of solar cell using materials that can convert electricity more efficiently than today's ...

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 ...

In May 2016, solar power plant developers Enel Green Power North America unveiled a new solar power plant. It can produce electricity at night. This solar farm is located in California's Mojave Desert. It consists of a ...

What is photovoltaic (PV) technology and how does it work? PV materials and devices convert sunlight into electrical energy. A single PV device is known as a cell. An individual PV cell is ...

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