

SolarTech Power Solutions

Solar panels double the power generation



Overview

A new thermodynamic formula reveals that bifacial solar cells in double-sided panels generate on average 15 to 20% more sunlight to electricity than the today's one-sided solar panels. Can a double-sided solar panel generate electricity on both sides?

Researchers have invented a double-sided solar panel capable of generating electricity from the Sun's energy on both sides.

Could double-sided solar panels save electricity?

Double-sided solar cells are already enabling panels to sit vertically on land or rooftops and even horizontally as the canopy of a gas station, but it hasn't been known exactly how much electricity these panels could ultimately generate or the money they could save.

What is the double glass photovoltaic solar panel?

Glass-glass module structures (Dual Glass or Double Glass) is a technology that uses a glass layer on the back of the modules instead of the traditional polymer backsheet.

Which solar power system is most cost effective?

Solar power systems with double-sided (bifacial) solar panels -- which collect sunlight from two sides instead of one -- and single-axis tracking technology that tilts the panels so they can follow the sun are the most cost effective to date, researchers report.

How much more power does the back side of the panel generate?

The back side of the panel achieves an efficiency of about 91-93 per cent of the front, which offers up to 20 per cent more power overall when harvesting reflected sunlight.

Which side of a solar panel is more efficient?

The front side of a solar panel typically has an efficiency of about 75-80 per cent. The back side, however, achieves an efficiency of about 91-93 per cent of the front, which offers up to 20 per cent more power overall when harvesting reflected sunlight.

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