



## Overview

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In this guide, we'll cover what bifacial solar panels are, how they work, when they pay back, and which models to shortlist in 2025 — along with live product links and indicative marketplace pricing (GBP, excluding VAT). How do bifacial solar panels work?

Traditional solar panels, known as monofacial panels, only use one side of the module for this process. The light that isn't absorbed by the panel is reflected away. Bifacial solar panels are different. These types of panels have solar cells on both sides, enabling them to absorb light from the front and the back.

Are bifacial solar panels better than monofacial panels?

The technology behind solar panels continues to evolve and improve. Manufacturers are now able to produce bifacial panels, which feature energy-producing solar cells on both sides of the panel. With two faces capable of absorbing sunlight, bifacial solar panels can be more efficient than traditional monofacial panels – if used appropriately.

What are bifacial and monofacial solar cells?

Front and rear view of monofacial and bifacial photovoltaic (PV) modules . Bifacial solar cells encased in a glass/backsheet structure provide more power under standard test conditions (STC) than glass/glass PV bifacial modules.

Are bifacial solar panels a good investment?

And, as we'll discuss, bifacial panels are also more expensive than traditional single-face panels, which can affect the breakeven point of your investment. Bifacial solar panels can capture light energy on both sides of the panel, whereas monofacial panels (AKA traditional solar panels) only absorb sunlight on the front.

What is bifacial solar technology?

While most solar arrays capture sunlight only on their front side, bifacial

technology unlocks energy from both sides—harnessing reflected light from the ground or nearby surfaces. This innovation is revolutionizing solar farms and rooftops alike, but many homeowners remain unaware of its potential.

Do bifacial solar panels increase electricity generation?

Bifacial solar panels are known to increase electricity generation by up to 27%. Why trust EnergySage?

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## Solar bifacial module array

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## Contact Us

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