# Bifacial high-efficiency solar modules

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 efficientthan traditional monofacial panels - if used appropriately.

What are the benefits of bifacial solar panels?
Commercially,there are several benefits in using bifacial solar cells. As discussed earlier,the first will not add any cost to the present monofacial solar cells. Second,the minimized land usagefor installing bifacial panels is almost half the surface required for monofacial solar panels.

What is a bifacial solar module?
LONGi launched its mono-PERC modules in 2016,featuring integrated PERC technology on monocrystalline silicon and low light degradation,and its cell efficiency has increased from 21% to 24.06%. Bifacial modules collect solar energy from both the front and back side of the module,increasing the total power output per module.

Are bifacial solar panels a smart upgrade?
Bifacial solar panels are a smart upgradefor anyone looking to get more energy from the same space. Since they can capture sunlight from both sides,they often produce more electricity than regular panels. They're also built to last longer and look sleeker.

What is a bifacial silicon solar panel?
The bifacial silicon-based cell architecture consists of PERC+, p -PERL, n -PERC, n -PERT, n-PERL, heterojunction, IBC and TOPCon cells. A typical bifacial silicon solar panel consists of a glass sheet on both front and back sides, a transparent polymer sheet and a thin silicon wafer layer with a shelf life of at least 25 years.

Why do bifacial solar panels increase power conversion efficiency?
The increase in the bifacial silicon solar cells is due to the reduction in silicon wafer thickness and the increase in the transparency of the panels. Under better albedo and proper mounting angles,a typical bifacial solar panel is expected to show 50% more power conversion efficiency than the monofacial counterpart.

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