

Bifacial Solar Market to Grow at 13.6% CAGR: Demand Rises for Dual-Sided High-Efficiency Panels

Bifacial Solar Market Surges to \$31.1 Billion by 2031 | High-Efficiency Modules Power Global Growth

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The <u>bifacial solar market</u> is witnessing rapid global expansion as industries, governments, and consumers shift toward more efficient and cost-



effective solar technologies. According to a recent report by Allied Market Research, the global bifacial solar market was valued at \$8.7 billion in 2021 and is projected to reach \$31.1 billion by 2031, growing at a strong CAGR of 13.6% from 2022 to 2031. This remarkable growth reflects increasing adoption of dual-sided solar modules, supportive government policies, and rising



The bifacial solar market is set to reach \$31.1B by 2031, driven by high-efficiency dual-sided panels, rising solar adoption, and global clean energy goals."

Allied Market Research

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demand for cleaner electricity across residential,

commercial, and industrial sectors. $\Box\Box$

☐ What Makes Bifacial Solar Panels Different?

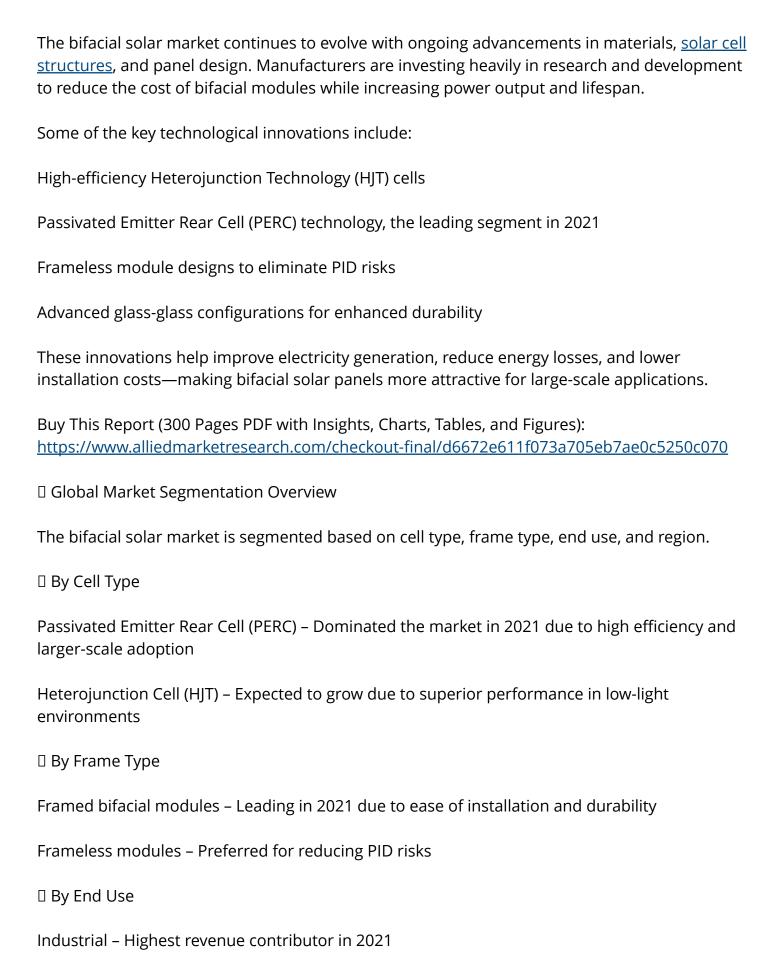
Bifacial solar panels are an advanced solar technology

engineered with solar cells on both sides of the module. This design allows panels to generate electricity from both the front and rear surfaces, capturing direct sunlight as well as reflected and diffused light. These panels often produce up to 30% more energy compared to traditional monofacial panels, depending on installation conditions.

Key advantages include:

☐ Higher energy output in the same footprint
☐ Lower Levelized Cost of Energy (LCOE)
☐ High durability with UV-resistant coatings on both sides
☐ Reduced balance-of-system (BOS) costs
☐ Lower risks of Potential-Induced Degradation (PID), especially in frameless designs
These benefits make bifacial solar panels ideal for commercial, industrial, and utility-scale solar projects where maximizing output and efficiency is essential.
☐ Rising Global Demand for Solar Electricity Fuels Market Growth
The surge in demand for solar power is one of the primary drivers of the bifacial solar market. Industries and commercial establishments increasingly rely on solar energy to offset peak power usage, reduce energy costs, and meet sustainability targets.
Organizations worldwide are adopting high-efficiency solar modules that offer better performance and long-term savings. As solar technology becomes more affordable and efficien bifacial modules are emerging as the preferred choice for energy-intensive sectors.
Additionally, the rapid expansion of solar parks, rooftop installations, and industrial energy management systems is further boosting market demand. This trend is expected to continue as companies focus on reducing operational costs and enhancing energy independence.
☐ Government Policies Boost Adoption of Bifacial Solar Technology
Government incentives and renewable energy policies play a significant role in expanding the bifacial solar market. One key example is the Feed-in Tariff (FiT) initiative, where governments pay consumers for the solar electricity they generate. These incentives help reduce installation costs and encourage adoption of solar technologies.
In Europe, the European Green Deal has significantly accelerated renewable energy deployment. The initiative aims to cut carbon emissions and promote mass adoption of solar energy across residential and commercial buildings. \square
In rural regions globally, governments have also launched programs to support electrification using renewable energy, making solar-powered solutions more accessible and affordable.

 $\hfill\square$ Technological Advancements Accelerate Market Expansion



Commercial – Growing rapidly due to higher electricity requirements
Residential – Expanding in rooftop solar markets
☐ By Region
Europe – Largest market in 2021, driven by strong renewable energy policies
North America – Rapidly growing due to solar incentives and industrial adoption
Asia-Pacific – Significant growth expected due to rising urbanization and demand for clean energy
LAMEA – Emerging markets adopting solar to support rural electrification
☐ Key Players Driving Global Competition
Major companies leading the bifacial solar market include:
Jinko Solar Holdings
Canadian Solar
Yingli Green Energy
LG Electronics
LONGi
JA Solar Holding Co. Ltd.
Trina Solar
Sharp Corporation
SunPower Corporation
Wuxi Suntech Power Co., Ltd.
These companies focus on capacity expansion, partnerships, acquisitions, and technology innovation to strengthen their global market presence.
□ Impact of COVID-19 on the Bifacial Solar Market

The COVID-19 pandemic adversely affected the bifacial solar market due to:
Disruptions in global raw material supply chains
☐ Shutdown of manufacturing plants
☐ Reduced labor availability
□□ A decline in commercial construction and tourism-related projects
However, the market recovered quickly in late 2021 as industries resumed operations and governments prioritized clean energy investment as part of economic recovery plans.
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□ Conclusion
The bifacial solar market is set for remarkable growth over the next decade, driven by rising clean energy demand, strong government support, innovative solar technologies, and increasing adoption across industrial and commercial sectors. With its ability to generate energy from both sides and deliver higher efficiency, bifacial technology is shaping the future of solar energy worldwide. As global energy transition accelerates, bifacial solar panels will play a key role in building a sustainable, low-carbon future. $\Box\Box\Box$
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