

Bifacial Solar Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application, Product Type

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Abstracts

Bifacial Solar Market Summary

Introduction

Bifacial solar panels, capable of generating electricity from both sides by capturing direct and reflected sunlight, represent a transformative technology in the renewable energy sector. These panels, leveraging advanced photovoltaic materials, offer higher energy yields compared to traditional monofacial panels, making them ideal for diverse applications. The technology is widely adopted in residential, commercial, industrial, and utility-scale projects, driven by the global push for clean energy and carbon neutrality. The increasing deployment of solar farms, with over 1,200 gigawatts of global solar capacity installed by 2024, underscores the rising demand for efficient solutions like bifacial panels. Additionally, supportive government policies, declining costs of solar components, and innovations in module design further propel market growth.

Market Size and Growth Forecast

The global bifacial solar market is projected to reach between USD 14 billion and USD 19 billion by 2025, with a compound annual growth rate (CAGR) of 11% to 16% through 2030. This growth reflects the increasing adoption of high-efficiency solar technologies and expanding renewable energy investments worldwide.

Regional Analysis

North America: The U.S. leads with large-scale solar projects and favorable incentives,

while Canada focuses on integrating bifacial panels in cold climates for enhanced albedo effects.

Europe: Germany, Spain, and the Netherlands dominate, driven by ambitious renewable energy targets and advanced solar infrastructure.

Asia Pacific: China and India see rapid growth due to massive solar capacity additions, while Japan emphasizes high-efficiency bifacial systems for space-constrained installations.

Rest of the World: Brazil expands solar adoption in utility-scale projects, and the Middle East, particularly Saudi Arabia, invests in bifacial technology for desert-based solar farms.

Application Analysis

Residential: Expected growth of 10.5-15.0%, driven by rooftop installations and consumer demand for energy independence. Trends focus on cost-effective, aesthetically pleasing designs.

Commercial & Industrial: Projected growth of 11.0-16.0%, linked to corporate sustainability goals. Developments emphasize scalable, high-yield systems.

Utilities: Anticipated growth of 12.0-17.0%, tied to large-scale solar farms. Advances prioritize integration with energy storage and grid stability solutions.

Type Analysis

Dual-glass Bifacial Solar: Expected growth of 11.5-16.5%, valued for durability and high energy output. Trends focus on enhanced transparency and reduced degradation.

Glass-backsheet Bifacial Solar: Projected growth of 10.0-14.5%, appreciated for cost-effectiveness. Developments highlight improved backsheet materials for longevity.

Key Market Players

Leading companies include LONGi, offering high-efficiency bifacial modules; Trina Solar, innovating in large-scale applications; LG Electronics, focusing on premium residential solutions; MegaCell, advancing cell technology; Neo Solar Power, enhancing

module performance; Panasonic, prioritizing reliability; Prism Solar, specializing in innovative designs; SolarWorld, targeting commercial projects; Yingli Green Energy, expanding in emerging markets; and Lumos Solar, focusing on aesthetic integration. These firms drive growth through technological advancements and strategic partnerships.

Porter's Five Forces Analysis

Threat of New Entrants: Moderate, due to high R&D and manufacturing costs, though new players can enter with innovative designs.

Threat of Substitutes: Low, as bifacial panels offer superior efficiency with limited direct alternatives.

Bargaining Power of Buyers: Moderate, with utilities seeking cost-competitive solutions while balancing performance requirements.

Bargaining Power of Suppliers: Low, due to abundant raw material suppliers, reducing dependency risks.

Competitive Rivalry: High, with firms competing on efficiency, cost, and scalability.

Market Opportunities and Challenges

Opportunities: The global solar capacity exceeding 1,200 gigawatts by 2024 drives demand for high-efficiency bifacial panels. Supportive policies, such as tax incentives and renewable energy mandates, enhance adoption. Innovations like LONGi's high-efficiency modules and Trina's large-format designs improve yields, while emerging markets offer significant growth potential.

Challenges: High initial investment costs limit adoption in developing regions. Supply chain disruptions for critical materials like silicon pose risks. Limited awareness of bifacial technology benefits in some markets slows penetration.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

- 3.1 Research Scope
- 3.2 Research Sources
 - 3.2.1 Data Sources
 - 3.2.2 Assumptions
- 3.3 Research Method

CHAPTER 4 MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

- 6.1 Upstream/Suppliers Analysis
- 6.2 Bifacial Solar Analysis
 - 6.2.1 Technology Analysis
 - 6.2.2 Cost Analysis
 - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

- 7.1 Latest News
- 7.2 Merger and Acquisition
- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 TRADING ANALYSIS

- 8.1 Export of Bifacial Solar by Region
- 8.2 Import of Bifacial Solar by Region
- 8.3 Balance of Trade

CHAPTER 9 HISTORICAL AND FORECAST BIFACIAL SOLAR MARKET IN NORTH AMERICA (2020-2030)

- 9.1 Bifacial Solar Market Size
- 9.2 Bifacial Solar Demand by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Type Segmentation and Price
- 9.5 Key Countries Analysis
 - 9.5.1 United States
 - 9.5.2 Canada
 - 9.5.3 Mexico

CHAPTER 10 HISTORICAL AND FORECAST BIFACIAL SOLAR MARKET IN SOUTH AMERICA (2020-2030)

- 10.1 Bifacial Solar Market Size
- 10.2 Bifacial Solar Demand by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Type Segmentation and Price
- 10.5 Key Countries Analysis
 - 10.5.1 Brazil
 - 10.5.2 Argentina
 - 10.5.3 Chile
 - 10.5.4 Peru

CHAPTER 11 HISTORICAL AND FORECAST BIFACIAL SOLAR MARKET IN ASIA & PACIFIC (2020-2030)

- 11.1 Bifacial Solar Market Size
- 11.2 Bifacial Solar Demand by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Type Segmentation and Price
- 11.5 Key Countries Analysis
 - 11.5.1 China
 - 11.5.2 India
 - 11.5.3 Japan
 - 11.5.4 South Korea
 - 11.5.5 Southeast Asia
 - 11.5.6 Australia

CHAPTER 12 HISTORICAL AND FORECAST BIFACIAL SOLAR MARKET IN EUROPE (2020-2030)

- 12.1 Bifacial Solar Market Size
- 12.2 Bifacial Solar Demand by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Type Segmentation and Price
- 12.5 Key Countries Analysis
 - 12.5.1 Germany
 - 12.5.2 France
 - 12.5.3 United Kingdom
 - 12.5.4 Italy
 - 12.5.5 Spain
 - 12.5.6 Belgium
 - 12.5.7 Netherlands
 - 12.5.8 Austria
 - 12.5.9 Poland
 - 12.5.10 Russia

CHAPTER 13 HISTORICAL AND FORECAST BIFACIAL SOLAR MARKET IN MEA (2020-2030)

- 13.1 Bifacial Solar Market Size
- 13.2 Bifacial Solar Demand by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Type Segmentation and Price
- 13.5 Key Countries Analysis

- 13.5.1 Egypt
- 13.5.2 Israel
- 13.5.3 South Africa
- 13.5.4 Gulf Cooperation Council Countries
- 13.5.5 Turkey

CHAPTER 14 SUMMARY FOR GLOBAL BIFACIAL SOLAR MARKET (2020-2025)

- 14.1 Bifacial Solar Market Size
- 14.2 Bifacial Solar Demand by End Use
- 14.3 Competition by Players/Suppliers
- 14.4 Type Segmentation and Price

CHAPTER 15 GLOBAL BIFACIAL SOLAR MARKET FORECAST (2025-2030)

- 15.1 Bifacial Solar Market Size Forecast
- 15.2 Bifacial Solar Demand Forecast
- 15.3 Competition by Players/Suppliers
- 15.4 Type Segmentation and Price Forecast

CHAPTER 16 ANALYSIS OF GLOBAL KEY VENDORS

- 16.1 LONGi
 - 16.1.1 Company Profile
 - 16.1.2 Main Business and Bifacial Solar Information
 - 16.1.3 SWOT Analysis of LONGi
 - 16.1.4 LONGi Bifacial Solar Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.2 Trina Solar
 - 16.2.1 Company Profile
 - 16.2.2 Main Business and Bifacial Solar Information
 - 16.2.3 SWOT Analysis of Trina Solar
 - 16.2.4 Trina Solar Bifacial Solar Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.3 LG Electronics
 - 16.3.1 Company Profile
 - 16.3.2 Main Business and Bifacial Solar Information
 - 16.3.3 SWOT Analysis of LG Electronics
 - 16.3.4 LG Electronics Bifacial Solar Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.4 MegaCell

- 16.4.1 Company Profile
- 16.4.2 Main Business and Bifacial Solar Information
- 16.4.3 SWOT Analysis of MegaCell
- 16.4.4 MegaCell Bifacial Solar Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.5 Neo Solar Power
 - 16.5.1 Company Profile
 - 16.5.2 Main Business and Bifacial Solar Information
 - 16.5.3 SWOT Analysis of Neo Solar Power
 - 16.5.4 Neo Solar Power Bifacial Solar Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.6 Panasonic
 - 16.6.1 Company Profile
 - 16.6.2 Main Business and Bifacial Solar Information
 - 16.6.3 SWOT Analysis of Panasonic
 - 16.6.4 Panasonic Bifacial Solar Sales, Revenue, Price and Gross Margin (2020-2025)

Please ask for sample pages for full companies list

Tables & Figures

TABLES AND FIGURES

Table Abbreviation and Acronyms List
Table Research Scope of Bifacial Solar Report
Table Data Sources of Bifacial Solar Report
Table Major Assumptions of Bifacial Solar Report
Figure Market Size Estimated Method
Figure Major Forecasting Factors
Figure Bifacial Solar Picture
Table Bifacial Solar Classification
Table Bifacial Solar Applications List
Table Drivers of Bifacial Solar Market
Table Restraints of Bifacial Solar Market
Table Opportunities of Bifacial Solar Market
Table Threats of Bifacial Solar Market
Table Covid-19 Impact For Bifacial Solar Market
Table Raw Materials Suppliers List
Table Different Production Methods of Bifacial Solar
Table Cost Structure Analysis of Bifacial Solar
Table Key End Users List
Table Latest News of Bifacial Solar Market
Table Merger and Acquisition List
Table Planned/Future Project of Bifacial Solar Market
Table Policy of Bifacial Solar Market
Table 2020-2030 Regional Export of Bifacial Solar
Table 2020-2030 Regional Import of Bifacial Solar
Table 2020-2030 Regional Trade Balance
Figure 2020-2030 Regional Trade Balance
Table 2020-2030 North America Bifacial Solar Market Size and Market Volume List
Figure 2020-2030 North America Bifacial Solar Market Size and CAGR
Figure 2020-2030 North America Bifacial Solar Market Volume and CAGR
Table 2020-2030 North America Bifacial Solar Demand List by Application
Table 2020-2025 North America Bifacial Solar Key Players Sales List
Table 2020-2025 North America Bifacial Solar Key Players Market Share List
Table 2020-2030 North America Bifacial Solar Demand List by Type
Table 2020-2025 North America Bifacial Solar Price List by Type
Table 2020-2030 United States Bifacial Solar Market Size and Market Volume List
Table 2020-2030 United States Bifacial Solar Import & Export List

Table 2020-2030 Canada Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Canada Bifacial Solar Import & Export List
Table 2020-2030 Mexico Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Mexico Bifacial Solar Import & Export List
Table 2020-2030 South America Bifacial Solar Market Size and Market Volume List
Figure 2020-2030 South America Bifacial Solar Market Size and CAGR
Figure 2020-2030 South America Bifacial Solar Market Volume and CAGR
Table 2020-2030 South America Bifacial Solar Demand List by Application
Table 2020-2025 South America Bifacial Solar Key Players Sales List
Table 2020-2025 South America Bifacial Solar Key Players Market Share List
Table 2020-2030 South America Bifacial Solar Demand List by Type
Table 2020-2025 South America Bifacial Solar Price List by Type
Table 2020-2030 Brazil Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Brazil Bifacial Solar Import & Export List
Table 2020-2030 Argentina Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Argentina Bifacial Solar Import & Export List
Table 2020-2030 Chile Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Chile Bifacial Solar Import & Export List
Table 2020-2030 Peru Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Peru Bifacial Solar Import & Export List
Table 2020-2030 Asia & Pacific Bifacial Solar Market Size and Market Volume List
Figure 2020-2030 Asia & Pacific Bifacial Solar Market Size and CAGR
Figure 2020-2030 Asia & Pacific Bifacial Solar Market Volume and CAGR
Table 2020-2030 Asia & Pacific Bifacial Solar Demand List by Application
Table 2020-2025 Asia & Pacific Bifacial Solar Key Players Sales List
Table 2020-2025 Asia & Pacific Bifacial Solar Key Players Market Share List
Table 2020-2030 Asia & Pacific Bifacial Solar Demand List by Type
Table 2020-2025 Asia & Pacific Bifacial Solar Price List by Type
Table 2020-2030 China Bifacial Solar Market Size and Market Volume List
Table 2020-2030 China Bifacial Solar Import & Export List
Table 2020-2030 India Bifacial Solar Market Size and Market Volume List
Table 2020-2030 India Bifacial Solar Import & Export List
Table 2020-2030 Japan Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Japan Bifacial Solar Import & Export List
Table 2020-2030 South Korea Bifacial Solar Market Size and Market Volume List
Table 2020-2030 South Korea Bifacial Solar Import & Export List
Table 2020-2030 Southeast Asia Bifacial Solar Market Size List
Table 2020-2030 Southeast Asia Bifacial Solar Market Volume List
Table 2020-2030 Southeast Asia Bifacial Solar Import List

Table 2020-2030 Southeast Asia Bifacial Solar Export List
Table 2020-2030 Australia Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Australia Bifacial Solar Import & Export List
Table 2020-2030 Europe Bifacial Solar Market Size and Market Volume List
Figure 2020-2030 Europe Bifacial Solar Market Size and CAGR
Figure 2020-2030 Europe Bifacial Solar Market Volume and CAGR
Table 2020-2030 Europe Bifacial Solar Demand List by Application
Table 2020-2025 Europe Bifacial Solar Key Players Sales List
Table 2020-2025 Europe Bifacial Solar Key Players Market Share List
Table 2020-2030 Europe Bifacial Solar Demand List by Type
Table 2020-2025 Europe Bifacial Solar Price List by Type
Table 2020-2030 Germany Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Germany Bifacial Solar Import & Export List
Table 2020-2030 France Bifacial Solar Market Size and Market Volume List
Table 2020-2030 France Bifacial Solar Import & Export List
Table 2020-2030 United Kingdom Bifacial Solar Market Size and Market Volume List
Table 2020-2030 United Kingdom Bifacial Solar Import & Export List
Table 2020-2030 Italy Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Italy Bifacial Solar Import & Export List
Table 2020-2030 Spain Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Spain Bifacial Solar Import & Export List
Table 2020-2030 Belgium Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Belgium Bifacial Solar Import & Export List
Table 2020-2030 Netherlands Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Netherlands Bifacial Solar Import & Export List
Table 2020-2030 Austria Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Austria Bifacial Solar Import & Export List
Table 2020-2030 Poland Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Poland Bifacial Solar Import & Export List
Table 2020-2030 Russia Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Russia Bifacial Solar Import & Export List
Table 2020-2030 MEA Bifacial Solar Market Size and Market Volume List
Figure 2020-2030 MEA Bifacial Solar Market Size and CAGR
Figure 2020-2030 MEA Bifacial Solar Market Volume and CAGR
Table 2020-2030 MEA Bifacial Solar Demand List by Application
Table 2020-2025 MEA Bifacial Solar Key Players Sales List
Table 2020-2025 MEA Bifacial Solar Key Players Market Share List
Table 2020-2030 MEA Bifacial Solar Demand List by Type
Table 2020-2025 MEA Bifacial Solar Price List by Type

Table 2020-2030 Egypt Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Egypt Bifacial Solar Import & Export List
Table 2020-2030 Israel Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Israel Bifacial Solar Import & Export List
Table 2020-2030 South Africa Bifacial Solar Market Size and Market Volume List
Table 2020-2030 South Africa Bifacial Solar Import & Export List
Table 2020-2030 Gulf Cooperation Council Countries Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Gulf Cooperation Council Countries Bifacial Solar Import & Export List
Table 2020-2030 Turkey Bifacial Solar Market Size and Market Volume List
Table 2020-2030 Turkey Bifacial Solar Import & Export List
Table 2020-2025 Global Bifacial Solar Market Size List by Region
Table 2020-2025 Global Bifacial Solar Market Size Share List by Region
Table 2020-2025 Global Bifacial Solar Market Volume List by Region
Table 2020-2025 Global Bifacial Solar Market Volume Share List by Region
Table 2020-2025 Global Bifacial Solar Demand List by Application
Table 2020-2025 Global Bifacial Solar Demand Market Share List by Application
Table 2020-2025 Global Bifacial Solar Key Vendors Sales List
Table 2020-2025 Global Bifacial Solar Key Vendors Sales Share List
Figure 2020-2025 Global Bifacial Solar Market Volume and Growth Rate
Table 2020-2025 Global Bifacial Solar Key Vendors Revenue List
Figure 2020-2025 Global Bifacial Solar Market Size and Growth Rate
Table 2020-2025 Global Bifacial Solar Key Vendors Revenue Share List
Table 2020-2025 Global Bifacial Solar Demand List by Type
Table 2020-2025 Global Bifacial Solar Demand Market Share List by Type
Table 2020-2025 Regional Bifacial Solar Price List
Table 2025-2030 Global Bifacial Solar Market Size List by Region
Table 2025-2030 Global Bifacial Solar Market Size Share List by Region
Table 2025-2030 Global Bifacial Solar Market Volume List by Region
Table 2025-2030 Global Bifacial Solar Market Volume Share List by Region
Table 2025-2030 Global Bifacial Solar Demand List by Application
Table 2025-2030 Global Bifacial Solar Demand Market Share List by Application
Table 2025-2030 Global Bifacial Solar Key Vendors Sales List
Table 2025-2030 Global Bifacial Solar Key Vendors Sales Share List
Figure 2025-2030 Global Bifacial Solar Market Volume and Growth Rate
Table 2025-2030 Global Bifacial Solar Key Vendors Revenue List
Figure 2025-2030 Global Bifacial Solar Market Size and Growth Rate
Table 2025-2030 Global Bifacial Solar Key Vendors Revenue Share List
Table 2025-2030 Global Bifacial Solar Demand List by Type

Table 2025-2030 Global Bifacial Solar Demand Market Share List by Type
Table 2025-2030 Bifacial Solar Regional Price List
Table LONGi Information
Table SWOT Analysis of LONGi
Table 2020-2025 LONGi Bifacial Solar Sale Volume Price Cost Revenue
Figure 2020-2025 LONGi Bifacial Solar Sale Volume and Growth Rate
Figure 2020-2025 LONGi Bifacial Solar Market Share
Table Trina Solar Information
Table SWOT Analysis of Trina Solar
Table 2020-2025 Trina Solar Bifacial Solar Sale Volume Price Cost Revenue
Figure 2020-2025 Trina Solar Bifacial Solar Sale Volume and Growth Rate
Figure 2020-2025 Trina Solar Bifacial Solar Market Share
Table LG Electronics Information
Table SWOT Analysis of LG Electronics
Table 2020-2025 LG Electronics Bifacial Solar Sale Volume Price Cost Revenue
Figure 2020-2025 LG Electronics Bifacial Solar Sale Volume and Growth Rate
Figure 2020-2025 LG Electronics Bifacial Solar Market Share
Table MegaCell Information
Table SWOT Analysis of MegaCell
Table 2020-2025 MegaCell Bifacial Solar Sale Volume Price Cost Revenue
Figure 2020-2025 MegaCell Bifacial Solar Sale Volume and Growth Rate
Figure 2020-2025 MegaCell Bifacial Solar Market Share
Table Neo Solar Power Information
Table SWOT Analysis of Neo Solar Power
Table 2020-2025 Neo Solar Power Bifacial Solar Sale Volume Price Cost Revenue
Figure 2020-2025 Neo Solar Power Bifacial Solar Sale Volume and Growth Rate
Figure 2020-2025 Neo Solar Power Bifacial Solar Market Share
Table Panasonic Information
Table SWOT Analysis of Panasonic
Table 2020-2025 Panasonic Bifacial Solar Sale Volume Price Cost Revenue
Figure 2020-2025 Panasonic Bifacial Solar Sale Volume and Growth Rate
Figure 2020-2025 Panasonic Bifacial Solar Market Share

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