

Solar PV Mounting Systems Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

<https://marketpublishers.com/r/S3F70E290AB9EN.html>

Date: March 2025

Pages: 120

Price: US\$ 4,850.00 (Single User License)

ID: S3F70E290AB9EN

Abstracts

The Global Solar PV Mounting Systems Market reached USD 38.4 billion in 2024 and is poised to depict an impressive CAGR of 4.9% from 2025 to 2034. The increasing demand for off-grid solar systems in developing countries, combined with greater investments from both public and private sectors in renewable energy solutions, is significantly contributing to the market growth. Technological innovations focused on improving the efficiency of solar panels and the rising consumer preference for clean energy alternatives are expected to further accelerate this trend.

The adoption of solar PV systems has been strongly influenced by various government regulations, including the introduction of new policies, financial leverage, and subsidies aimed at promoting renewable energy sources. These initiatives have fueled large-scale PV system installations, particularly within the utility sector, which is also driving up the need for PV mounting systems. Financial tools such as subsidies and power purchase agreements have been crucial in making solar energy more accessible and cost-effective. As a result, the demand for mounting systems continues to grow, supporting the industry's positive outlook.

The market is divided into two main product types: ground-mounted and rooftop systems. In 2024, ground-mounted systems held a dominant 97.1% share of the market. This segment is expected to expand at a CAGR exceeding 4.5% through 2034. Ground-mounted systems benefit from increased energy production, easier maintenance, and longer-lasting solar panels. Factors like reduced system costs, availability of green loans, and government-backed financial incentives are contributing to the growing adoption of these systems. Additionally, the integration of advanced monitoring and control technologies is expected to play a significant role in increasing the adoption of ground-mounted solar solutions.

In North America, the solar PV mounting systems market was valued at USD 2.3 billion,

USD 3.7 billion, and USD 3.9 billion in 2022, 2023, and 2024, respectively. The region accounted for a 10.5% share of the global market in 2024, with a positive growth trajectory driven by government incentives, including investment subsidies and feed-in tariffs. Rising electricity demands and the ongoing transition to high-efficiency solar power systems will continue to transform the energy landscape in the region. The strong consumer focus on clean energy solutions is set to further drive the market expansion.

Contents

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Research Design
- 1.2 Base Estimates & Calculations
- 1.3 Forecast Model
- 1.4 Primary Research & Validation
 - 1.4.1 Primary Sources
 - 1.4.2 Data Mining Sources
- 1.5 Market definitions

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021 - 2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
 - 3.3.1 Growth drivers
 - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's analysis
 - 3.5.1 Bargaining power of suppliers
 - 3.5.2 Bargaining power of buyers
 - 3.5.3 Threat of new entrants
 - 3.5.4 Threat of substitutes
- 3.6 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Strategic dashboard
- 4.3 Innovation & technology landscape

CHAPTER 5 MARKET SIZE AND FORECAST, BY TECHNOLOGY, 2021 - 2034 (USD MILLION)

Solar PV Mounting Systems Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 20...

5.1 Key trends

5.2 Fixed

5.3 Tracking

CHAPTER 6 MARKET SIZE AND FORECAST, BY PRODUCT, 2021 - 2034 (USD MILLION)

6.1 Key trends

6.2 Ground mounted

6.3 Rooftop

CHAPTER 7 MARKET SIZE AND FORECAST, BY END USE, 2021 - 2034 (USD MILLION)

7.1 Key trends

7.2 Residential

7.3 Commercial & industrial

7.4 Utility

CHAPTER 8 MARKET SIZE AND FORECAST, BY REGION, 2021 - 2034 (USD MILLION)

8.1 Key trends

8.2 North America

8.2.1 U.S.

8.2.2 Canada

8.2.3 Mexico

8.3 Europe

8.3.1 Austria

8.3.2 Norway

8.3.3 Denmark

8.3.4 Finland

8.3.5 France

8.3.6 Germany

8.3.7 Italy

8.4 Asia Pacific

8.4.1 China

8.4.2 Australia

- 8.4.3 India
- 8.4.4 Japan
- 8.4.5 South Korea
- 8.5 Middle East
 - 8.5.1 Israel
 - 8.5.2 Saudi Arabia
 - 8.5.3 UAE
 - 8.5.4 Jordan
 - 8.5.5 Oman
- 8.6 Africa
 - 8.6.1 South Africa
 - 8.6.2 Egypt
 - 8.6.3 Algeria
 - 8.6.4 Nigeria
 - 8.6.5 Morocco
- 8.7 Latin America
 - 8.7.1 Brazil
 - 8.7.2 Chile
 - 8.7.3 Argentina
 - 8.7.4 Peru

CHAPTER 9 COMPANY PROFILES

- 9.1 Arctech
- 9.2 Array Technologies
- 9.3 Clenergy
- 9.4 First Solar
- 9.5 Jinko Solar
- 9.6 K2 Systems
- 9.7 Mounting Systems
- 9.8 Nextracker
- 9.9 Schletter Group
- 9.10 SOLTEC
- 9.11 SunPower Corporation
- 9.12 UNIRAC
- 9.13 Valmont Industries
- 9.14 Versolsolar Hangzhou
- 9.15 Xiamen Grace Solar New Energy Technology

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