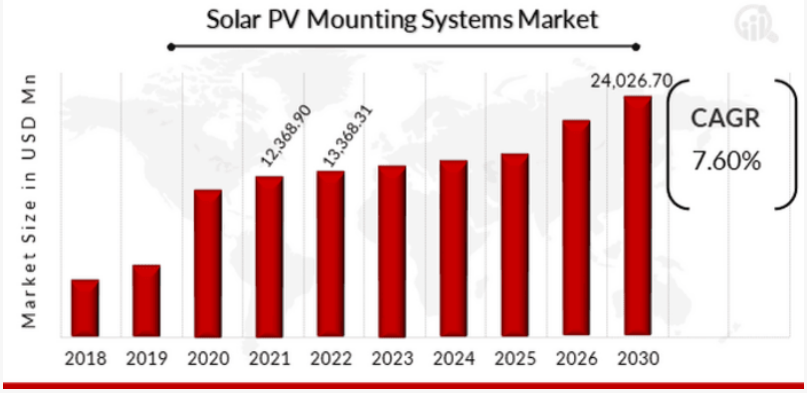
Solar PV Mounting Systems Market Expanding Rapidly, Expected to Hit USD 24,026.70 Million by 2030 with 7.60% CAGR

The Solar PV Mounting Systems Market is growing due to rising solar energy adoption, innovations, and government incentives.



Solar PV Mounting Systems Market

NEW YORK, NY, UNITED STATES, March 17, 2025 /EINPresswire.com/ -- According to a comprehensive research report by Market Research Future (MRFR), the Solar PV Mounting Systems Market Information by Product, Technology, Component, End User, and Region - Forecast till 2030, the Solar PV Mounting Systems Market Size was valued at USD 12,368.90 Million in 2021. The solar PV mounting systems industry is projected to grow from USD 13,368.31 Million in 2022 to USD 24,026.70 Million by 2030, exhibiting a compound annual growth rate of 7.60% during the forecast period 2024–2030.

> The Solar PV Mounting Systems Market is driven by rising renewable energy adoption, technological advancements, and growing demand for efficient solar installations."
>
> *MRFR*

Solar PV Mounting Systems Market Overview

The Solar PV (Photovoltaic) Mounting Systems Market has witnessed significant growth in recent years, driven by the rising adoption of solar energy across residential, commercial, and industrial sectors. Solar PV mounting systems serve as the foundational structures that support solar panels, ensuring their stability, orientation, and optimal performance.

These systems are designed to withstand various environmental conditions while maximizing

energy efficiency. With global efforts to transition towards sustainable energy sources, the demand for reliable and efficient PV mounting solutions continues to expand.

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Key Companies in the Solar PV Mounting Systems Market include:

Schletter Group (Germany)
Unirac Inc. (US)
SolarWorld AG (Germany)
K2 Systems GmbH (Germany)
Esdec (Netherlands)
Tata International Ltd (Switzerland)
Land Power Solar Technology Co. Ltd (China)
RBI Solar Inc. (US)
Mounting System GmbH (Germany)
Xiamen Grace Solar Technology (China)
Clenergy (China)
Xiamen Universe Solar Technology (China)
Xiamen Corigy New Energy Technology Co. Ltd. (China)
PV Racking (US)

Market Trends Highlights

One of the most prominent trends in the Solar PV Mounting Systems Market is the increasing preference for ground-mounted and rooftop solar PV installations. The demand for floating solar PV mounting systems has also surged due to land constraints and the need for efficient space utilization. Moreover, technological advancements, such as tracking systems that adjust the tilt and orientation of solar panels throughout the day, are gaining traction as they enhance energy capture efficiency. Additionally, lightweight and durable materials, such as aluminum and galvanized steel, are being used to improve system longevity and reduce installation costs.

The market is also witnessing a growing inclination toward prefabricated and modular mounting systems, which streamline installation processes and reduce labor costs. Furthermore, the rising adoption of bifacial solar panels, which generate electricity from both sides, is influencing the design and innovation of mounting structures to accommodate such advancements.

Market Dynamics

The Solar PV Mounting Systems Market operates within a dynamic landscape influenced by economic, technological, and regulatory factors. Governments worldwide are implementing policies, incentives, and subsidies to encourage solar energy adoption, thereby driving the demand for mounting solutions. In parallel, fluctuating raw material prices and supply chain

disruptions can pose challenges to market stability.

The increasing focus on reducing carbon emissions and achieving net-zero energy goals has further accelerated investments in solar energy projects, boosting the market for PV mounting systems. Additionally, the growing interest of corporate and industrial sectors in renewable energy procurement is fostering market expansion, as businesses seek to achieve sustainability targets through solar installations.

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Market Drivers

Several key factors are driving the growth of the Solar PV Mounting Systems Market:

Rising Adoption of Solar Energy – The rapid shift towards renewable energy sources, backed by government incentives and policies, is fueling the demand for solar PV mounting systems.

Cost Reduction in Solar Installations – Technological advancements and economies of scale have significantly reduced the cost of solar PV systems, making installations more affordable and attractive.

Favorable Government Policies and Incentives – Tax credits, subsidies, and feed-in tariffs provided by governments worldwide are encouraging solar adoption and driving the market for mounting systems.

Growing Investments in Utility-Scale Solar Projects – Large-scale solar farms and grid-connected projects are increasing the demand for robust and efficient mounting solutions.

Advancements in Solar PV Technology – Innovations such as bifacial panels, single-axis and dual-axis tracking systems, and improved panel efficiency are positively impacting the demand for customized mounting structures.

Market Restraints

Despite the strong growth trajectory, the Solar PV Mounting Systems Market faces several challenges:

High Initial Investment Costs – Although the cost of solar PV systems has decreased, the initial capital expenditure for high-quality mounting systems can still be a deterrent for some users.

Raw Material Price Fluctuations – The volatility in steel, aluminum, and other raw material prices can affect production costs and profitability for manufacturers.

Land Acquisition and Space Constraints – In urban and densely populated areas, securing suitable land for ground-mounted solar installations can be challenging, limiting market expansion.

Weather and Environmental Factors – Harsh weather conditions, such as hurricanes, heavy snowfall, and extreme temperatures, can affect the durability and stability of mounting structures.

Complex Installation Processes – While prefabricated and modular solutions are gaining traction, some mounting systems still require extensive labor and time-intensive installation processes, adding to overall costs.

Solar PV Mounting Systems Market Segmentation:

Solar PV Mounting Systems Product Outlook

Rooftop

Ground Mounted

Solar PV Mounting Systems Technology Outlook

Fixed

Tracking

Solar PV Mounting Systems Component Outlook

PV Modules (Panels)

Inverters

Racking

Battery

Other Components

Solar PV Mounting Systems End User Outlook

Residential

Commercial

Industrial

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Future Trends

The Solar PV Mounting Systems Market is poised for continued growth, driven by several emerging trends. The increasing integration of artificial intelligence (AI) and Internet of Things (IoT) technologies in solar tracking systems is expected to enhance energy optimization and automation. Smart mounting systems capable of real-time monitoring and remote diagnostics are likely to gain popularity, improving maintenance efficiency and reducing operational costs.

Furthermore, as sustainability and circular economy principles become more prominent, the development of eco-friendly and recyclable mounting materials will be a key focus area. Innovations such as 3D-printed mounting systems and biodegradable composites may shape the future of the industry.

The expansion of solar energy in developing regions, particularly in Africa, Latin America, and Southeast Asia, will provide new growth opportunities for PV mounting system providers. Additionally, hybrid solar power solutions, combining solar PV with wind or battery storage, will drive demand for adaptable and multi-functional mounting structures.

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