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Global Photovoltaic Power Station Cleaning Robot Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Photovoltaic Power Station Cleaning Robot market size is expected to reach $ 1783 million by 2032, rising at a market growth of 11.6% CAGR during the forecast period (2026-2032).

Photovoltaic Power Station Cleaning Robot refers to robotic equipment specifically designed to remove dust, sand, bird droppings, leaves and other contaminants from photovoltaic module surfaces through automated or operator-assisted movement and cleaning mechanisms. Typical systems integrate a mobile or array-mounted platform with rotating brushes, wiping components, water-spraying devices or combined cleaning modules, together with drive units, power supply, control systems and safety functions. Depending on system architecture, Photovoltaic Power Station Cleaning Robot products can be divided into fixed and mobile types; by automation level, they include fully automatic and semi-automatic systems; and by cleaning method, they include dry, wet and wet & dry models. Advanced products increasingly incorporate autonomous navigation, edge detection, obstacle avoidance, automatic docking and charging, remote monitoring, cloud-based fleet management and intelligent cleaning scheduling. Photovoltaic Power Station Cleaning Robot products are primarily deployed at centralized photovoltaic stations and distributed photovoltaic stations to reduce soiling-related generation losses, lower dependence on manual cleaning, improve cleaning frequency and support more automated photovoltaic operation and maintenance.

Key Findings

Global Photovoltaic Power Station Cleaning Robot production reached approximately 178.5 K units in 2025

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The global average selling price was approximately US$4,663 per unit in 2025

Fixed fully automatic systems are increasingly adopted in large centralized photovoltaic stations

Mobile robots provide greater deployment flexibility for distributed and complex photovoltaic installations

Dry cleaning is particularly important in arid regions where water availability and cleaning frequency are critical

Market Trends

The Photovoltaic Power Station Cleaning Robot industry is moving from basic mechanized cleaning toward autonomous, connected and site-adaptive robotic operation. Fixed robots are increasingly integrated into photovoltaic arrays as permanent O&M infrastructure, while trackless and mobile platforms are becoming more capable of autonomous navigation and adapting to different module layouts. Ecoppia and Airtouch Solar have developed fully autonomous, water-free systems for utility-scale photovoltaic plants, while SolarCleano has expanded from remote-controlled mobile equipment to autonomous free-moving solutions. Chinese manufacturers are also accelerating the integration of multi-sensor positioning, automatic route planning, wireless charging, cloud management and intelligent shuttle systems. This evolution is gradually shifting product competition from cleaning hardware alone toward reliability, autonomy, fleet management, photovoltaic module compatibility and whole-site operating economics.

Market Dynamics

Drivers

Photovoltaic capacity expansion and increasing attention to lifecycle O&M efficiency remain the fundamental demand drivers for Photovoltaic Power Station Cleaning Robot. IEA PVPS reported that approximately 698 GW of new photovoltaic capacity was installed globally in 2025, bringing cumulative capacity close to 3 TW. At the same time, module soiling remains a material operating issue: IEA PVPS estimates that soiling is

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responsible for around 4–7% of global photovoltaic energy losses on average. As photovoltaic projects become larger and asset owners place greater emphasis on availability, generation yield and labor efficiency, frequent robotic cleaning becomes economically more relevant, particularly at utility-scale plants in dusty and arid environments.

Restraints

The economics of Photovoltaic Power Station Cleaning Robot remain highly site-specific. Fixed systems require upfront installation and may require photovoltaic array layouts, row spacing, bridges, docking stations or tracker structures to be robot-compatible. Mobile robots reduce permanent infrastructure requirements but can involve higher labor input for transportation, deployment or supervision. Uneven terrain, module height differences, tracker gaps, steep inclination, strong wind, mud, snow and highly adhesive contaminants can also reduce cleaning efficiency or raise equipment complexity. For smaller distributed projects with low soiling rates, periodic manual or mechanized cleaning may remain more economical than dedicated robotic systems.

Opportunities

The largest structural opportunities are emerging from utility-scale projects in dry regions, tracker-based solar plants, large industrial and commercial rooftops, and complex photovoltaic installations where conventional labor-intensive cleaning is difficult to scale. Trackless autonomous robots, intelligent shuttles and articulated-arm platforms can expand robot coverage beyond conventional fixed-row systems and reduce the number of robots required per project. Integration with weather data, soiling sensors, SCADA and cloud platforms also creates an opportunity to shift from fixed cleaning schedules toward condition-based cleaning, improving both energy recovery and equipment utilization. Sunpure’s current product architecture, for example, already spans railed, trackless, articulated-arm and shuttle solutions for different photovoltaic configurations.

Challenges

The industry still faces challenges in standardization, long-term reliability and project economics. Photovoltaic modules, trackers and mounting systems differ significantly among projects, meaning a robot that performs reliably on one array may require

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substantial adaptation on another. Manufacturers must demonstrate that repeated cleaning does not cause microcracks, coating abrasion or excessive mechanical loading, while maintaining reliable operation under dust, heat, humidity and strong wind. As more manufacturers enter the market, competition is also shifting toward total lifecycle cost, local service capability and demonstrated field performance rather than nominal cleaning efficiency alone.

Industry Chain Analysis

The upstream supply chain of Photovoltaic Power Station Cleaning Robot includes electric motors and drive systems, batteries and charging systems, brushes and microfiber cleaning materials, wheels or tracks, aluminum and engineering-plastic structural components, sensors, control boards, communication modules and, for advanced products, positioning and machine-vision components. Midstream manufacturers integrate mechanical structures, cleaning mechanisms, embedded control, navigation algorithms, communication systems and cloud software into complete robotic systems, with product value increasingly determined by reliability, module safety, autonomy, cleaning coverage and fleet-level management. Downstream customers primarily include photovoltaic developers, power station owners, EPC contractors and O&M service providers. The value chain is consequently evolving from one-time equipment supply toward integrated delivery covering site design adaptation, installation, commissioning, software monitoring, maintenance and replacement parts.

Segment Insights

By product architecture, Fixed Type Photovoltaic Power Station Cleaning Robots are particularly suited to large, regular photovoltaic arrays where robots can remain permanently deployed and perform high-frequency cleaning with limited human intervention. This architecture is strongly aligned with centralized photovoltaic stations and dry, dusty environments. Mobile Type products offer greater flexibility and can serve multiple rows, different photovoltaic arrays and distributed installations, reducing the number of dedicated robots required but often increasing requirements for mobility, transfer or operator support. New trackless autonomous mobile platforms are narrowing the operational gap between these two architectures.

By automation, Fully Automatic products represent the main direction of technology upgrading, integrating automatic scheduling, navigation, docking, charging and remote fleet management. Semi-automatic robots retain an important role where project layouts

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are irregular or customers prioritize lower equipment investment and operational flexibility. By cleaning method, Dry Type products are particularly attractive in desert and water-constrained markets and are central to the solutions offered by companies such as Ecoppia and Airtouch Solar. Wet Type and Wet & Dry products remain relevant where sticky contamination, bird droppings or environmental conditions require stronger cleaning performance; SolarCleano, for example, offers mobile platforms capable of both wet and dry cleaning.

Downstream Market Opportunities

Centralized photovoltaic stations represent the most suitable application environment for large-scale deployment of fixed and fully automatic Photovoltaic Power Station Cleaning Robot systems because project size, standardized layouts and repeated cleaning requirements improve equipment utilization. IEA PVPS estimates that centralized and utility-scale projects accounted for approximately 59% of new global photovoltaic capacity in 2025, reinforcing the addressable base for automated O&M technologies. Desert and semi-arid utility-scale plants have particularly strong demand because frequent dust accumulation coincides with limited water availability and high manual-cleaning requirements.

Distributed photovoltaic stations create a different opportunity structure. Industrial and commercial rooftops, BIPV projects and other distributed installations generally have more fragmented layouts and access constraints, favoring compact, trackless or mobile systems rather than permanently installed robots on every array. The development of autonomous navigation and portable robotic platforms is therefore expanding the economic feasibility of robotic cleaning beyond conventional large ground-mounted plants.

Regional Insights

China is both a major photovoltaic deployment market and an increasingly important manufacturing base for Photovoltaic Power Station Cleaning Robot. IEA PVPS estimates that China accounted for around 60% of global photovoltaic additions in 2025, while domestic robot manufacturers have expanded from conventional fixed systems toward trackless, shuttle and autonomous platforms. The Middle East and India are strategically important deployment markets because large utility-scale projects, high dust loading and water constraints create favorable economics for frequent dry robotic cleaning; Airtouch Solar and Ecoppia have both commercialized autonomous water-free

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technologies suited to such environments.

Europe presents a more diversified application environment, with mobile and wet & dry cleaning products serving commercial rooftops, ground-mounted projects and heterogeneous photovoltaic layouts. North America also offers opportunities in large utility-scale installations, particularly in dry western regions, although procurement is supplied by a mix of domestic and international robotic technology providers. Regional competition is therefore shaped not only by photovoltaic installation volume but also by climate, water availability, labor costs, array architecture and local O&M practices.

Competitive Landscape Analysis

The Photovoltaic Power Station Cleaning Robot market has developed into a diversified competitive structure combining specialist robotic companies, photovoltaic O&M technology suppliers and broader renewable-energy equipment manufacturers. Ecoppia and Airtouch Solar are strongly positioned around fully autonomous, water-free systems for utility-scale projects, while SolarCleano, SERBOT AG, HyCLEANER, Washpanel, Solar Cleaning Machinery and sunbrush emphasize flexible mobile or multi-scenario cleaning architectures. Chinese companies including Sunpuretech, Sol-Bright, Radiant Photovoltaic Technology, Trinasolar and other domestic manufacturers are rapidly expanding product portfolios across fixed, trackless, shuttle and autonomous cleaning systems. Competitive differentiation increasingly depends on field reliability, module compatibility, autonomous operation, cleaning coverage per robot, deployment cost, cloud-based fleet management and the ability to provide local service across major photovoltaic markets.

Report Scope

This report studies the global Photovoltaic Power Station Cleaning Robot production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photovoltaic Power Station Cleaning Robot and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Photovoltaic Power Station Cleaning Robot that contribute to its increasing demand across many markets.

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Highlights and key features of the study

Global Photovoltaic Power Station Cleaning Robot total production and demand, 2021-2032, (K Units)

Global Photovoltaic Power Station Cleaning Robot total production value, 2021-2032, (USD Million)

Global Photovoltaic Power Station Cleaning Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Photovoltaic Power Station Cleaning Robot consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Photovoltaic Power Station Cleaning Robot domestic production, consumption, key domestic manufacturers and share

Global Photovoltaic Power Station Cleaning Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Photovoltaic Power Station Cleaning Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Photovoltaic Power Station Cleaning Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Photovoltaic Power Station Cleaning Robot market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ecoppia, Airtouch Solar, SolarCleano, SERBOT AG, HyCLEANER, Washpanel, Solar Cleaning Machinery (SCM), sunbrush, WJ-Robot, Sunpuretech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

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Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Photovoltaic Power Station Cleaning Robot market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Photovoltaic Power Station Cleaning Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Photovoltaic Power Station Cleaning Robot Market, Segmentation by Type:

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Fixed Type

Mobile Type

Global Photovoltaic Power Station Cleaning Robot Market, Segmentation by Automation:

Fully Automatic

Semi-automatic

Global Photovoltaic Power Station Cleaning Robot Market, Segmentation by Cleaning Methods:

Dry Type

Wet Type

Wet & Dry

Global Photovoltaic Power Station Cleaning Robot Market, Segmentation by Application:

Distributed Photovoltaic Station

Centralized photovoltaic Station

Companies Profiled:

Ecoppia

Airtouch Solar

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SolarCleano

SERBOT AG

HyCLEANER

Washpanel

Solar Cleaning Machinery (SCM)

sunbrush

WJ-Robot

Sunpuretech

Jiangsu Huibo Roboties Technology

Cooper (Tianjin) Technology

Nanjing Tetraelc Electronics Technology

Xiamen Lanxu Intelligent Technology

Langfang Sol-Bright Photovoltaic Technology

Suzhou Radiant Photovoltaic Technology

Innovpower

Trinasolar

Shandong Tianyi High-Technology

SHENZHEN KWUNPHI ROBOT

Bayrobot

Zhengzhou Derui Intelligent Technology

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Shanghai Sun Ocean Marine Equipment

Ifbottech

Key Questions Answered

1. How big is the global Photovoltaic Power Station Cleaning Robot market?
2. What is the demand of the global Photovoltaic Power Station Cleaning Robot market?
3. What is the year over year growth of the global Photovoltaic Power Station Cleaning Robot market?
4. What is the total value of the global Photovoltaic Power Station Cleaning Robot market?
5. Who are the Major Players in the global Photovoltaic Power Station Cleaning Robot market?
6. What are the growth factors driving the market demand?

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