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Global Photovoltaic Clean Solutions Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Photovoltaic Clean Solutions market size is predicted to grow from US$ 1370 million in 2025 to US$ 2484 million in 2032; it is expected to grow at a CAGR of 9.0% from 2026 to 2032.

Photovoltaic (PV) cleaning solutions refer to comprehensive cleaning and maintenance solutions that address dust, sand, bird droppings, and other pollutants on the surface of photovoltaic (PV) modules. These solutions utilize manual cleaning, mechanical equipment, cleaning robots, drones, spray systems, or waterless cleaning technologies to reduce power generation losses caused by shading and pollution, while also considering module safety, water efficiency, operation and maintenance costs, and long-term power generation performance.

In the future, global PV cleaning solutions will continue to evolve towards automation, intelligence, water-saving, and unmanned operation. With the increase in large-scale ground-mounted power plants, desert PV bases, and distributed PV installations, traditional manual cleaning will gradually be replaced by cleaning robots, track-mounted equipment, and intelligent spray systems. AI recognition, sensors, meteorological data, and power generation efficiency monitoring will be used to determine the degree of pollution and optimize cleaning frequency, enabling on-demand cleaning. Simultaneously, driven by the expansion of PV projects in water-scarce areas, the importance of technologies such as waterless dry brushing, low water consumption, and dust-proof coatings will further increase. The future market will also place greater emphasis on equipment reliability, low module damage, adaptability to complex terrain, and the synergy between cleaning equipment and intelligent power plant operation and maintenance platforms, driving the industry to evolve from single equipment sales to full lifecycle operation and maintenance services and comprehensive solution models.

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Report Scope

LPI (LP Information)' newest research report, the “Photovoltaic Clean Solutions Industry Forecast” looks at past sales and reviews total world Photovoltaic Clean Solutions sales in 2025, providing a comprehensive analysis by region and market sector of projected Photovoltaic Clean Solutions sales for 2026 through 2032. With Photovoltaic Clean Solutions sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Photovoltaic Clean Solutions industry.

This Insight Report provides a comprehensive analysis of the global Photovoltaic Clean Solutions landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Photovoltaic Clean Solutions portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Photovoltaic Clean Solutions market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Photovoltaic Clean Solutions and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Photovoltaic Clean Solutions.

This report presents a comprehensive overview, market shares, and growth opportunities of Photovoltaic Clean Solutions market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Type:

Dry Cleaning

Wet Cleaning

Hybrid Cleaning

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Segmentation by Cleaning Equipment Type:

Manual Cleaning Equipment

Semi-Automatic Cleaning Equipment

Fully Automatic Cleaning Robot

Segmentation by Application:

Utility-Scale Ground-Mounted PV

Commercial and Industrial Rooftop PV

Residential Rooftop PV

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

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- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

- Ecoppia

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Airtouch Solar

RST CleanTech

NOMADD

SolarCleano

SunBrush mobil

K?rcher

hyCLEANER

Serbot

MM Solar

Solar Maid

Miraikikai

PV Japan

ORIX

Sunpure Tech

Solar-LIT

BOE Energy

Tianyi Technology

VG Solar

Wisson Robotics

MYUAV Technology

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