

Global Electric Solar Panel Cleaning Robot Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electric Solar Panel Cleaning Robot market size is expected to reach \$ 914 million by 2032, rising at a market growth of 12.0% CAGR during the forecast period (2026-2032).

Electric Solar Panel Cleaning Robot is an electrically powered automated cleaning device for solar panel operation and maintenance, using motor-driven movement, brush or dry-cleaning modules, sensors, controllers, and battery or external power supply to remove dust, sand, bird droppings, and other deposits from photovoltaic module surfaces. Compared with a general PV panel cleaning robot, this product definition emphasizes electric drive, controllable cleaning force, stable movement, lower operating noise, reduced water dependence, and suitability for repeated cleaning tasks in ground-mounted plants, distributed rooftop systems, industrial and commercial rooftops, and high-dust regions where cleaning efficiency directly affects power generation output. In 2025, production was approximately 80,000 units and the average price was USD 5,000 per unit. The industry's capacity utilization rate in 2025 was about 70% and the average gross margin was around 30%. Upstream, the key inputs include brushless motors, lithium batteries, sensors, and controllers, with representative suppliers such as Nidec, CATL, and Bosch providing drive motors, battery systems, sensing components, and control modules. The midstream segment focuses on electric drive system integration, robot structural design, panel walking mechanism development, cleaning module integration, battery endurance optimization, obstacle detection, route planning, dust and sand adaptability, waterproof and weather-resistant design, remote monitoring, safety testing, and automated assembly, which together determine cleaning efficiency, operating stability, panel compatibility, service life, and cost competitiveness. Downstream, Electric Solar Panel Cleaning Robot is mainly used in ground-mounted photovoltaic power stations and rooftop photovoltaic systems, with representative

photovoltaic power generation companies including China Three Gorges Renewables, Enel Green Power, and NextEra Energy.

Electric Solar Panel Cleaning Robot demand will be influenced by photovoltaic operators' need to control soiling losses with lower manual input and more predictable cleaning quality. For ground-mounted solar plants, electric-drive systems are useful where dust, sand, and large module areas make manual cleaning costly and inconsistent. Rooftop projects bring a different requirement, as limited access and safety concerns favor compact robots with stable movement and controllable cleaning force. As water-saving operation becomes more important, customers will compare equipment by drive reliability, battery endurance, panel protection, cleaning efficiency, weather resistance, remote monitoring, and maintenance economics.

This report studies the global Electric Solar Panel Cleaning Robot production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electric Solar Panel 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 Electric Solar Panel Cleaning Robot that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electric Solar Panel Cleaning Robot total production and demand, 2021-2032, (Units)

Global Electric Solar Panel Cleaning Robot total production value, 2021-2032, (USD Million)

Global Electric Solar Panel Cleaning Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Electric Solar Panel Cleaning Robot consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Electric Solar Panel Cleaning Robot domestic production, consumption, key domestic manufacturers and share

Global Electric Solar Panel Cleaning Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Electric Solar Panel Cleaning Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Electric Solar Panel Cleaning Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Electric Solar Panel 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 (Israel), Sunpure Technology (China), Airtouch Solar (Israel), SolarCleanso (Luxembourg), TG hyLIFT GmbH (Germany), SERBOT AG (Switzerland), Miraikikai (Japan), BladeRanger (Israel), Aegeus Technologies (India), SolarACM Systems Corporation (USA), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Electric Solar Panel Cleaning Robot market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Electric Solar Panel Cleaning Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electric Solar Panel Cleaning Robot Market, Segmentation by Type:

Rail-Guided Solar Cleaning Robot

Self-Propelled Solar Cleaning Robot

Others

Global Electric Solar Panel Cleaning Robot Market, Segmentation by Cleaning Method:

Dry Cleaning Solar Panel Robot

Wet Cleaning Solar Panel Robot

Global Electric Solar Panel Cleaning Robot Market, Segmentation by Cleaning Capacity:

Capacity

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