

Solar Panel Cleaning Chemicals Market Growth: From US\$ 690 Mn in 2023 to US\$ 1.4 Bn by 2034 | TMR

The shift to renewable energy is driving solar panel installations, fueling demand for cleaning chemicals to ensure their maintenance.

WILMINGTON, DE, UNITED STATES, December 12, 2024 / EINPresswire.com/ -- The [solar panel cleaning chemicals market](#) was projected to attain US\$ 690.0 million in 2023. It is likely to garner a 6.8% CAGR from 2024 to 2034, and by 2034, the market is expected to attain US\$ 1.4 billion.



Solar Panel Cleaning Chemicals Market

The development and adoption of automated and robotic cleaning systems that use specialized chemicals are on the rise. The systems enhance efficiency and reduce labor costs. Companies are investing in research and development to create advanced cleaning solutions that are more effective and less harmful to the environment.

The market is seeing a trend towards customized cleaning solutions tailored to specific types of solar panels and environmental conditions. Increasing awareness among solar panel owners about the importance of regular cleaning for maintaining efficiency presents an opportunity for market growth.

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Regions with high dust, pollution, or bird populations require more frequent cleaning of solar panels, increasing the demand for cleaning chemicals. The rise in large scale solar farms and commercial installations necessitates regular and efficient cleaning to maintain energy production, driving demand for specialized cleaning chemicals.

More individuals and businesses are investing in solar energy, as the cost of solar panel installation decreases, thereby increasing the need for maintenance solutions like cleaning chemicals. Regular cleaning extends the lifespan of solar panels, making the use of cleaning chemicals a cost effective maintenance practice.

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Innovations in cleaning formulations that provide better adherence to solar panels and enhanced removal of tough residues like bird droppings and industrial pollutants.

Establishing training and certification programs for solar panel cleaning to ensure proper use of chemicals and techniques, enhancing market credibility and adoption.

Offering comprehensive maintenance packages that include regular cleaning services along with chemical supplies, creating a recurring revenue stream for companies.

Leveraging government programs that support renewable energy maintenance and operations to promote the adoption of solar panel cleaning chemicals.

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By technology, the wet cleaning segment is expected to propel the growth of the solar panel cleaning chemicals market.

Wet cleaning is highly effective in removing stubborn contaminants such as bird droppings, industrial pollutants, and sticky residues that dry cleaning methods might not effectively eliminate. The thoroughness ensures higher efficiency and performance of solar panels.

Wet cleaning can be used in a variety of environments and on different types of solar panels.

It is particularly useful in regions with high levels of dust and pollution, where dry cleaning might not suffice.

Continuous advancements in wet cleaning technologies, such as the development of eco-friendly and biodegradable cleaning solutions, are making this method more efficient and environmentally friendly.

Innovations include water saving techniques and the use of surfactants that enhance cleaning efficacy.

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The solar panel cleaning chemicals market is characterized by a diverse range of players, including multinational corporations, regional manufacturers, and specialized companies.

The competitive landscape is shaped by innovation, product differentiation, strategic partnerships, and regional market dynamics. The following companies are well known participants in the solar panel cleaning chemicals market:

- Saint-Gobain
- AX System
- Clean Solar Solutions Ltd.
- Ecoppia
- Enel Green Power S.p.A.
- IP Cleaning S.r.l.
- Pacific Panel Cleaners, LLC
- Premier Solar Cleaning, LLC
- Indisolar Products Private Limited
- Sharp Corporation
- SERBOT AG

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In 2024, Chemitek Solar, a leading manufacturer based in Portugal specializing in cleaning solutions for the photovoltaic (PV) sector, disclosed that their products, Solar Wash Protect (SWP) and Water Softening Agent (WSA), successfully cleared ecotoxicity assessments for application on floating PV installations.

In 2023, Sharp Corporation introduced solar panels certified under IEC61215 and IEC61730 standards, boasting an operating temperature coefficient of -0.30% per Celsius and a bifaciality factor exceeding 80%.

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- Wet Cleaning
- Dry Cleaning

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Manual
Automatic

□□ □□□□□□

Semi-automated
Automated
Water Brushes
Electrostatic
Others

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Residential
Commercial
Industrial
Others

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North America
Latin America
Europe
Asia Pacific
Middle East & Africa

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[Concentrated Solar Power Market](#) - The global concentrated solar power market is projected to advance at a CAGR of 34.6% from 2023 to 2031

[Organic Solar Cell Market](#) - The global organic solar cell market is projected to expand at a CAGR of 21.2% during the forecast period from 2021 to 2031

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