

Self-Cleaning Glass Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2028F Segmented By Product Type (Hydrophobic Coating & Hydrophilic Coating), By Application (Windows, Skylights, Facades, Exterior Shop Fronts, Solar Panels, Automotive Windows, Smartphones & Tablets), By End User (Residential, Commercial & Industrial), By Region.

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Abstracts

Global Self-Cleaning Glass market is anticipated to grow at a steady pace in the forecast period 2024-2028, and is being driven by the expanding construction industry, which raises demand for products such as titanium dioxide with value-added glass, as well as the rising need for self-cleaning glass in solar panels due to its quick and easy maintenance.

Self-cleaning glass, as its name suggests, is a form of glass that maintains a surface free of dirt and grime. A thin coating of compounds with photolytic and hydrophilic characteristics is deposited to create these glasses. When water or rain is applied, a titanium oxide coating on the surface starts a chemical process that reduces dirt and other contaminants into tiny particles that may be easily wiped away.

Solar Power Plant Around the Globe Will Work As Catalyst for Self-Cleaning Glass Market

Self-cleaning glass extends the life of solar panels, lowers maintenance costs, and improves energy efficiency. High efficiency solar cells require a high absorption of

incident sunlight. Self-cleaning glass is an environmentally friendly option because it consumes less water and doesn't require chemicals to clean the surface. For instance, on November 30, the Water and Electricity Holding Company (Badeel) and the local utility company ACWA Power, signed a contract to turn the Mecca province's Al Shuaibah into the world's biggest single-site solar power plant. The solar power station is expected to start operating by the end of 2025 and have a 2,060 MW generation capacity.

The PV (Photo Voltaic) module's performance is negatively impacted by dust buildup on its surface in terms of efficiency, output power, short circuit current, etc. Therefore, in order to preserve the efficiency of the PV module, some particular adjustments must be made. In this context, only a few PV module cleaning techniques exist, including manual cleaning, environmental cleaning, coating glass with nano-films for self-cleaning, electrostatic cleaning, and mechanical dust cleaning.

Trend Towards Renewable Energy & Growing Construction Sector in the Developing Economies:

The drive towards renewable energy and the rising demand for self-cleaning glass for use in skylights, conservatories, and roofs, will both speed up market growth in developing economies like Saudi Arabia and India. The global self-cleaning glass market will have strong growth potential due to an increase in product launches and a rise in the demand for value-added glass products. For instance, Saudi Arabia has counted on ACWA Power to help it reach its Vision 2030 renewable energy objective of meeting 70% of its energy demands through RE generation.

Additionally, in February 2023, Saudi Crown Prince Mohammed bin Salman founded the New Murabba Development Corporation (NMDC) to carry out a significant development in downtown Riyadh. The plan calls for the construction of a business district, a residential neighborhood, hotels, hospitals, amusement parks, and educational institutions. As these construction projects are in lineup, the market for Self-Cleaning glass will grow.

Comparatively Lesser Environmental Impact of Self Cleaning Glass Resulting in the Market Growth

Self-cleaning glass that has less adverse effect on the environment is advantageous for the world. Additionally, it saves water during washing and eliminates the need for additional cleaning agents. Self-cleaning eyewear is recognized for its resistance to

glare and mist. Self-cleaning glass is often used as a building infrastructure partition, as well as for doors and windows. Their use in the building industry has increased dramatically as a result of their ability to clean themselves.

The enormous growth of the building sector is one of the primary factors influencing market expansion. The market for self-cleaning glass will also grow as a result of the reduction in maintenance time and expense. Due to the effect of water, both types of coatings have the ability to clean themselves. The environment is less harmed by self-cleaning glass. Additionally, the rate of expansion of the self-cleaning glass market will be impacted by the growing demand for robust, scratch-resistant, and self-cleaning windows and facades.

Increasing Demand from Building & Construction Sector:

Self-cleaning glasses are frequently utilized as windows, glazing materials for building envelopes and as interior dividers.

Self-cleaning glass is used in roof windows, bay windows, conservatories, roofs, patio doors, and glazed facades in residential building. On solar control glass, a hydrophilic coating is typically used to give both great energy efficiency and self-cleaning qualities. The need for self-cleaning glass in residential buildings has increased due to the rapid urbanization of developing nations and the proliferation of building codes in industrialized nations.

For the year 2019, the construction industry in Europe grew by roughly 2%. Even though this industry's growth has slightly slowed, more people are projected to adopt self-cleaning glasses in the years to come.

A hydrophobic coating on the surface of self-cleaning glasses frequently repels the majority of foreign particles and eliminates the majority of waste that has built up. Even hydrophilic coatings are used, but in smaller quantities due to their lower effectiveness.

Self-cleaning glasses help to cut down on maintenance costs, which has led to an increase in their use, in both residential and commercial structures.

High Price Bar is Expected to Hinder the Growth of the Market.

Costs are typically determined by the required window or glass area's size. A double-glazed self-cleaning glass unit measuring 1200 mm x 1200 mm and made of 4 mm

glass typically costs roughly USD 195.73. You should budget around USD 756.98 for a 1000 mm x 1500 mm triple glazed self-cleaning glass skylight with a wood kerb. One also needs to account for the cost of installation by a qualified glazier in addition to the price of the self-cleaning glass. For a typical double window, installing self-cleaning glass will cost around USD 345, in total.

About 20% more money is spent on self-cleaning windows than on regular glass. As a result, it's important to assess your spending plan and take into account the total cost of installing self-cleaning windows and other self-cleaning glass.

Market Segmentation

Global Self-Cleaning Glass market can be segmented into product type, application, end user and region. Based on product type, the market is segmented into hydrophobic coating and hydrophilic coating. Based on application, the market is segmented into windows, skylights, facades, exterior shop fronts, solar panels, automotive windows, and smartphones & tablets. Based on end user, the market is segmented into residential, commercial & industrial. Based on region, the market is segmented into North America, Asia-Pacific, Europe, South America, and Middle East.

Market Players

Major market players in the global self-cleaning glass are Compagnie de Saint-Gobain S.A., TuffX Processed Glass Ltd, Morley Glass & Glazing Ltd., ATIS Group, Australian Glass Group, Cardinal Glass Industries, Inc., Guardian Industries, Morn Building Materials Co.,Ltd, Nippon Sheet Glass Co., Ltd., Nanovations Pty Ltd.

Report Scope:

In this report, the global self-cleaning glass has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Self-Cleaning Glass, By Product Type:

Hydrophobic Coating

Hydrophilic Coating

Self-Cleaning Glass, By Application:

Windows

Skylights

Facades

Exterior Shop Fronts

Solar Panels

Automotive Windows

Smartphones & Tablets

Self-Cleaning Glass, By End User:

Residential

Commercial

Industrial

Self-Cleaning Glass, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Europe

Germany

United Kingdom

France

Russia

Spain

South America

Brazil

Argentina

Middle East

Saudi Arabia

South Africa

Egypt

UAE

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Self-Cleaning Glass.

Available Customizations:

Global Self-Cleaning Glass report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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