

Self-Cleaning Glass Market, Size, Share, Growth, Opportunity and Forecast, 2021-2028 | DataM Intelligence

The Global Self-Cleaning Glass Market is expected to grow at a high CAGR of 4.22% during the forecasting period (2021-2028).



Maryland, Aberdeen, Aug 11, 2021 ([Issuewire.com](https://www.issuewire.com)) - Market Overview

Self Cleaning glass is a type of glass which do not require frequent cleaning and is free of dirt and dust particles. It is quite useful as usual cleaning of windows of high rise buildings is a very risky and long process. It is also used in solar panels and automotive windows. They are further divided into hydrophobic and hydrophilic based on the type of coating used.

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Market Dynamics

The major factor driving the rising demand for Global Self Cleaning Glass is the increasing demand for self-cleaning glass in solar panels, construction, and automotive windows. The increasing use of eco-friendly glass products is also driving market growth.

The increasing demand for Self Cleaning Glass in Various Industries like construction is driving the market growth

The growth in the construction industry in different parts of the world is driving the market growth for self-cleaning glass. Many construction projects are going on in Asia-Pacific like many MNCs are establishing

in China, India and other parts of the region like Samsung established their biggest manufacturing plant in India. Smart city's mission in India and many such projects are also driving the market of specialty pigments. In the Smart Cities Mission, 100 cities are selected and the mission was allotted INR 6,450 crore in the 2021-2022 budget and INR 3,400 crore in 2020-21. Many government schemes of the Indian government are creating opportunities for construction which is driving the market growth like Housing for All initiative which aims to construct 20 million households for the urban population by 2022. Even many construction projects in the middle east are creating opportunities in the market like the EXPO 2020 initiative was taken for Dubai in which the metro red line is to be extended. UAE also announced construction projects worth USD 3.1 billion in September 2020. Increasing migration in Europe and North America is also an important factor for the rising construction of houses. According to the report in 2020, total migrants in Europe and North America were close to 87 million and 58 million respectively. Due to the less migration during covid-19 the demand for residential construction decreases in the European nations. It is quite useful as usual cleaning of windows of high rise buildings is a very risky and long process especially in middle-East where there are many skyscrapers and the cleaning of glass frequently is very tiring and risky process due to which self-cleaning glass is quite useful and effective.

The development of new technologies and increasing usage of Self Cleaning Glass in solar panels, automotive windows is driving the market growth of Self Cleaning Glass

Self-cleaning solar panels are also used due to their property of easily removing dirt and dust particles and enhancing the absorption of solar energy. They are also used in automotive windows and they also help in reducing car accidents in various parts of the world as self-cleaning glass does not allow anything from sticking to it especially during the rainy season. Many companies are also developing new products and technologies for tackling new problems like the covid-19 pandemic like Asahi Glass Co launched a new self-cleaning glass called Planibel Easy in November 2020. This also helps to reduce the contamination of covid-19 on exposure to sunlight. This glass is quite helpful in this time of covid-19 pandemic so it will serve both the purposes of self-cleaning and helping to stop contamination of covid-19. Nippon Sheet Glass(NSG) Group has also developed and launched a glass with antibacterial and antiviral coating named NSG Purity in June 2021. This is also in response to the covid-19 pandemic. Various researches are being done on the applications of self-cleaning glass and since self-cleaning glass does not require frequent cleaning so it can also be used in the exploration of underwater vessels. They are also used in the screens of computer monitors and laptops etc.

The low penetration rate in the majority of developing countries is hampering the market growth for Self-Cleaning Glass

The decrease in the effectiveness of self-cleaning glass in low rainfall areas and less sunlight condition is also hampering the market growth for Self-Cleaning Glass

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Segment Analysis

By Coating Type

- Hydrophobic
- Hydrophilic

By Application

- Construction
- Automotive Windows
- Solar Panels
- Others

Geographical Analysis

Based on Region, the Global Self Cleaning Glass is segmented as - North America, Europe, Asia-Pacific, Middle East, Africa, South America. The Asia-Pacific region had a market share of XX% in 2020 and is expected to hold XX% by 2028. The Asia Pacific has a significant market share among all the regions as there is rising development in the construction and infrastructure sectors in countries such as India and China. There is significant growth in the residential and non-residential construction sector. The number of households is increasing in Asia-Pacific which increases the construction activities in this region. According to the report, the number of households in India, China, and Japan was 295 million, 499 million, 48 million in 2020. Due to COVID-19, there is a delay in infrastructure and construction projects in different parts of the world. Many construction projects are going on in Asia-Pacific like many MNCs are establishing their offices in China, India and other parts of the region like Samsung established their biggest manufacturing plant in India. Many construction projects are going on in India and China like in India, for the Smart Cities Mission, 100 cities were selected and INR 6,450 crore was allotted in the 2021-2022 budget and INR 3,400 crore in 2020-21. Many government schemes of the Indian government are creating opportunities for construction which is driving the market growth like the Housing for All initiative which aims to construct 20 million households for the urban population of India latest by 2022. Recently many state governments of India have approved the Affordable Rental Housing Scheme (ARHC) and many public and private companies will be given construction projects under this scheme. The construction sector is the second largest sector after the agricultural sector in India in terms of employment. Even with the increase in per capita income, expenditure on the construction sector of the countries in this region is increasing. The Indian construction industry was valued at INR 2.7 trillion in the final quarter of 2020. The construction sector contributes approximately 7.6% to the Indian GDP. China's Green Belt and Road initiative is also increasing the construction investments in Central Asia and some South-East Asian countries like Pakistan, Sri Lanka, Bangladesh, etc. Around 133-140 have signed MoU with China regarding the BRI project.

Competitive Landscape

Global Self Cleaning Glass Market is fragmented with key global players in the market. Some of the major companies contributing to the market's growth are- Nippon Sheet Glass, Guardian Industries, Saint-Gobain, PPG Industries, Inc., Foshan Qunli Glass Company Limited, Wuxi Yaopi Glass Engineering Company Limited, ZNG Glass Company Limited, Australian Insulated Glass, Dongguan City of East Pearl River Glass Company Limited, Cardinal Glass Industries, Asahi Glass Co and many others. Mergers and Acquisitions, expansions, joint ventures, etc. increases competition in the market like Asahi Glass Co opened a new R&D facility in Yokohama in November 2020. Cardinal Industries has announced the acquisition of the North-American glass business of Asahi Glass Co (AGC) in June 2021.

New products, services launches, partnerships, and agreements also increase competition between companies like Guardian Industries had introduced Bird1st UV coated glass in April 2019. Asahi Glass Co launched a new self-cleaning glass called Planibel Easy in November 2020. This also helps to reduce the contamination of COVID-19 on exposure to sunlight. Nippon Sheet Glass (NSG) Group has also developed and launched a glass with antibacterial and antiviral coating named NSG Purity in June

2021.

Increasing investments and divestments by the companies are also making the market of self-cleaning glass more competitive.

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