

Global Smart Glass Market Size study & Forecast, by Technology (Thermochromic., Photochromic, Electrochromic, Suspended Particle Device, Polymer Disperse Liquid Crystal, Others), by End User Industry (Transportation, Construction, Power Generation, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Smart Glass Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% during the forecast period 2023-2030. Smart glass is a type of glass that can change its properties in response to external stimuli such as voltage, heat, or light. The main feature of smart glass is its ability to switch between transparent and opaque states, providing control over the amount of light, heat, and glare entering a space. This technology offers various applications across different industries. The key factors driving the market growth are the increasing adoption of smart home technologies, growing advancement in construction and architectural industries, and increasing demand from the automotive sector that is anticipated to create the lucrative demand for the market during the forecast period 2023-2030.

Additionally, the growing adoption of smart homes has a significant impact on the growth of the Smart Glass Market. Smart glass can be seamlessly integrated with home automation systems, allowing users to control the transparency or opacity of the glass through voice commands or smartphone apps. As more homes embrace automation for lighting, temperature control, security, and entertainment systems, the demand for smart glass that can be part of these integrated solutions increases. According to Statista, globally the number of smart home users in 2020 was 224.18 million; in 2022 the number reached 307.82 million and it is anticipated to reach 493.55 million by 2025.

As a result, the growing adoption of smart homes is anticipated to support the market growth. Moreover, the rising development of sustainable buildings, and expanding applications in automotive, aviation, and marine industries are anticipated to create a lucrative opportunity for the market. However, the high research and development costs stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Smart Glass Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the growing emphasis on sustainable and energy-efficient solutions, rising awareness of green building technologies, rising adoption of smart homes, and strong presence of key market players. Whereas, the Asia Pacific is expected to grow with the fastest growth rate over the forecast period, owing to factors such as increasing investments in construction and infrastructure, rising awareness of green building technologies, rising disposable income, and growing rapid urbanization.

Major market player included in this report are:

Asahi Glass Co. Ltd

ChromoGenics

Gauzy Ltd and Entities

Gentex Corporation

Halio Inc.

Pleotint LLLC

Ravenbrick LLC

Research Frontiers Inc.

Saint Gobain

Showa Denko Materials Co. Ltd.

Recent Developments in the Market:

Global Smart Glass Market Size study & Forecast, by Technology (Thermochromic., Photochromic, Electrochromic,...

In August 2023, Gauzy Ltd. collaborated with Kolbe, a leading manufacturer of windows and doors, to introduce a comprehensive switchable privacy glass solution tailored for residential use. This collaboration empowers homeowners to seamlessly integrate personalized living spaces with state-of-the-art integrated technology. The solution utilizes Premium Polymer Dispersed Liquid Crystal (PDLC) films, strategically laminated between dual glass panes, offering an innovative and flexible privacy feature designed specifically for residential applications.

Global Smart Glass Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Technology, End User Industry, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest

along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

Thermochromic

Photochromic

Electrochromic

Suspended Particle Device (SPD)

Polymer Disperse Liquid Crystal (PDLC)

Others

By End User Industry:

Transportation

Construction

Power Generation

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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