

Smart Window Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2019-2024

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Abstracts

The global smart window market is expected to grow at a CAGR of around 17% during 2019-2024. A smart window is a technologically advanced window system that can change its optical power. These windows are made of several layers of smart glass which turns from transparent to translucent to control the amount of sunlight and heat entering a room. Presently, there are different types of glasses available in the market used for manufacturing smart windows including liquid crystal, suspended particle and micro-blinds. In recent years, these windows have gained immense popularity as they are considered a more efficient option for managing energy when compared to other systems like electric window shades.

Market Trends:

Smart windows are incorporated with lighting and air conditioning control systems to ensure greater thermal and visual comfort for the occupants as well as to generate significant energy savings. Besides this, the integration of smart windows with the Internet of Things (IoT) has helped in providing users with improved manageability and configuring abilities. These are some of the factors that are driving the growth of the market at the global level. Moreover, owing to increasing R&D activities, manufacturers are developing smart windows with electrochromic technology which helps the building owners and operators to conserve energy and minimize cooling, heating and lighting costs. Similarly, products are being developed using perovskites that turn dark at high temperatures and can harvest solar energy like PV cells. However, the high switching costs from traditional glass windows to smart windows is relatively high, which acts as a significant hindrance to the market growth.

IMARC Group's latest report provides a deep insight into the global smart window



market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for entrepreneurs, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the global smart window market in any manner.

Report Coverage:

Historical, Current and Future Market Trends

Market Breakup by Technology: Suspended Particle Devices Light Modulator Polymer Dispersed Liquid Crystal Devices Scanner Electro Chromic

Market Breakup by Type:
OLED Glass
Self-Dimming Window
Self-Repairing

Market Breakup by Application: Residential Commercial

Industrial

Transport

Market Breakup by Region:

North America

Europe

Asia Pacific

Middle East and Africa

Latin America

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Gentex Corporation, Glasnovations Ltd., Heliotrope Technologies, Pleotint, Ravenbrick LLC, Research Frontiers Inc., SAGE Electrochromics, Inc.,



Scienstry, Stellaris, Vista Window Company, ChromoGenics, Diamond Glass, EControl-Glas, Gesimat, Hitachi Chemical, Polytronix, etc

Key Questions Answered in This Report:

How has the global smart window market performed so far and how will it perform in the coming years?

What are the key regional markets in the global smart window industry?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the product type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the global smart window industry?

What are the key driving factors and challenges in the global smart window industry?

What is the structure of the global smart window industry and who are the key players?

What is the degree of competition in the global smart window industry?

What are the profit margins in the global smart window industry?



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