

# **Smart Glass and Smart Window Market by Technology (Active Glasses and Passive Glasses) and by Application (Automotive, Aircraft, Marine, and Construction) - Global Opportunity Analysis and Industry Forecast, 2014-2022**

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## **Abstracts**

Global Smart Glass And Smart Window Market Size Is Expected To Reach \$6.9 Billion By 2022, Growing At A Cagr Of 14.3% From 2016 To 2022. Smart Glass And Smart Window Or Switchable Glass And Switchable Window Are Glasses Whose Light Transmission Properties Are Changed When Voltage, Light Or Heat Is Applied. Usually, The Glass Changes From Translucent To Transparent, Blocking Some (Or All) Wavelengths Of Light To Letting Light Pass Through. When Smart Glass Is Installed In The Envelope Of Buildings, It Creates Climate Adaptive Building Shells, With The Ability To Save Heating Cost, Air-Conditioning And Lighting And Avoid The Cost Of Installing And Maintaining Motorized Light Screens Or Blinds Or Curtains. Blackout Smart Glass Blocks 99.4% Of Ultraviolet Light, Reducing Fabric Fading; For Spd-Type Smart Glass, This Is Achieved In Conjunction With Low Emissivity Coatings.

Increasing Demand For Smart Glass-Based Products, Stringent Regulations By Government, Reducing Expenditure On Air-Conditioning, Heating And Lighting And Smart Glass Influencing The Automotive And Aviation Sector Are Some Of The Key Drivers Raising The Growth Of Global Smart Glass And Smart Window Market. However, Critical Aspects Of Smart Glass Includes Lack Of Awareness, Material Costs, Installation Costs, Electricity Costs And Durability, As Well As Functional Features Such As The Speed Of Control, Possibilities For Dimming, And The Degree Of Transparency. The New Upcoming Technologies Along With Advancement In The Functions Of Smart Glass Are Expected To Fuel The Market Growth During The Forecast Period. The World Smart Glass And Smart Window Market Is Segmented By Technology, Its Applications And By Geography. On The Basis Of Technology It Is Fragmented As

Active Glasses And Passive Glasses Among Which Active Glasses Are Further Sub-Segmented Into Polymer Dispersed Liquid Crystal, Suspended Particle Devices, Electrochromic, And Others (Micro-Blinds And Nanoparticles) While Passive Glasses Are Further Sub-Divided As Passive Thermochromic And Passive Photochromic. By Application, It Is Divided As Automotive, Aircraft, Marine, And Construction. Geographically, The Market Is Analyzed Across North America, Europe, Asia-Pacific, And Lamea.

Key Players Profiled In This Report Are Sage Electrochromics, Inc., Saint-Gobain S.A., Smartglass International Ltd., Ravenbrick Llc, Pleotint Llc, View, Inc., Research Frontiers, Inc., Asahi Glass Co. Ltd., Gentex Corporation, Hitachi Chemical Co. Ltd., And Others.

#### Key Benefits

The Study Provides An In-Depth Analysis Of The Smart Glass And Smart Window Market With Current And Future Trends To Elucidate The Imminent Investment Pockets In The Market

The Report Provides Information Regarding Key Drivers, Restraints, And Opportunities With Impact Analysis

Porter's Five Forces Model Analysis Of The Industry Illustrate The Potency Of The Buyers And Suppliers Of The Market

Market Player Positioning In The Report Provide A Clear Understanding Of The Position Of Leading Companies In The Market

#### Smart Glass and Smart Window Market Key Segmentation

The Market Is Segmented On The Basis Of Technology, Application, And Geography. By Technology

##### Active Glasses

Suspended Particle Devices Glass

Polymer Dispersed Liquid Crystal Glass

Electrochromic Glass

Others (Micro-Blinds And Nanocrystals)

Passive Glasses

Passivethermochromic

Passive Photochromic

By Application

Automotive

Aircraft

Marine

Construction

By Geography

North America

U.S.

Canada

Mexico

Europe

France

Germany

Uk

Rest Of Europe

## Asia-Pacific

China

India

Japan

South Korea

Rest Of Asia-Pacific

## Lamea

Latin America

Middle East

Africa

## Key Players

Sage Electrochromics, Inc.

Saint-Gobain S.A.

Smartglass International Ltd.

Ravenbrick Llc

Pleotint Llc

View, Inc.

Research Frontiers, Inc.

Asahi Glass Co. Ltd.

Gentex Corporation

Hitachi Chemical Co. Ltd.

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PPG Industries

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