

The Global Market for Smart Glass 2024-2034

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Abstracts

Smart glass refers to specialty glass or glazing solutions that can dynamically modulate light transmission or opaqueness in response to voltage, light or temperature inputs. This switchable functionality enables user-controlled dimming, privacy, heat management and energy savings across diverse industries. The use of smart glass is an effective way of minimizing energy consumption in buildings. The unique light and heat-adaptive nature of smart glass is made possible by advanced underlying technologies that induce reversible changes in specialized glass materials through applied stimuli.

The Global Market for Smart Glass 2024-2034 provides a detailed analysis of this market, covering key smart glass technologies including electrochromic, thermochromic, and PDLC switchable glass. End users markets such as construction, automotive, and aerospace are extensively covered. Regional demand analysis and growth projections are provided for markets including North America, Europe, Asia Pacific and Rest of World.

Profiles for over 60 major companies working on smart glass and related technologies are included. The report focuses on key details around market size, segmentation, growth factors, challenges, emerging applications, product innovations and future roadmap. It aims to quantify the opportunity presented by smart glass, windows and dynamic glazing solutions. With sustainability concerns around energy conservation and green buildings taking centre stage, this research analysis helps identify specific areas of product enhancement and regional trends reshaping demand. Companies can leverage the granular demand forecasts to 2034 by technology and geography to focus innovation pipelines, localization strategies and predictive capacity planning as next-generation dynamic glass gets embedded across industries.

Report contents include:



Global smart glass market revenue forecasts segmented by technology, enduse industry, region through 2034.

Analysis of market drivers like energy regulations, EVs, reducing energy use, mega-trends.

Overview of smart glass technologies - electrochromic, thermochromic, SPD, PDLC etc.

Discussion of applications across architecture, automotive, aerospace, consumer devices.

Commercial application analysis - buildings, healthcare, transportation etc.

Comparative assessment of smart glass materials.

Company profiles for 60+ manufacturers and start-ups. Companies profiled include AGC Inc., Andluca Technologies, ChromoGenics AB, ClearVue Technologies, Gauzy Ltd, Halio, Inc., Nodis, Saint Gobain SageGlass, UbiQD and View, Inc.

Review of new products, partnerships, investments and funding trends.

Breakdown of demand growth projections for North America, Europe, Asia Pacific, China.

Challenges analysis covering costs, switching speeds, fabrication limits etc.

Emerging materials outlook.

Sustainability impact - recyclable panels, photocatalytic coatings, energy saving potential.

Future outlook addressing required innovation areas, new capabilities, roadmaps.



Contents

1 RESEARCH METHODOLOGY

2 AIMS AND OBJECTIVES OF THIS STUDY

3 EXECUTIVE SUMMARY

- 3.1 Market drivers
 - 3.1.1 Energy Efficiency Regulations
 - 3.1.2 Electric Vehicle Market Growth
 - 3.1.3 Reducing Energy Use
 - 3.1.4 Mega-trends driving the smart glass market
- 3.2 Market for Smart Glass
 - 3.2.1 Architecture and Construction
 - 3.2.2 Commercial buildings
 - 3.2.3 Healthcare Infrastructure
 - 3.2.4 Educational Institutions
 - 3.2.5 Residential Premises
 - 3.2.6 Automotive windows and glass
 - 3.2.7 Aerospace
 - 3.2.8 Consumer Devices
 - 3.2.8.1 Smartphones
 - 3.2.9 AR Smart Glasses
- 3.3 Comparison of smart glass technologies
 - 3.3.1 Competitive landscape
- 3.4 Global manufacturers
- 3.5 Routes to market
- 3.6 Commercial applications of smart glass
- 3.7 Market and technical challenges
 - 3.7.1 Consumer Scepticism
 - 3.7.2 Costs
 - 3.7.3 Premium Pricing
 - 3.7.4 Reliability Perceptions
 - 3.7.5 Large Area Fabrication
 - 3.7.6 Durability
 - 3.7.7 Material Limitations



- 3.7.8 Visual Haze
- 3.8 Future of smart glass
 - 3.8.1 Need for innovation
 - 3.8.2 Reducing costs
 - 3.8.3 Integration with building systems/Internet of things (IoT)
 - 3.8.4 Energy efficiency and regulations in buildings
 - 3.8.5 Photovoltaic smart glass
 - 3.8.6 Faster switching times
 - 3.8.7 Applications in healthcare infrastructure
 - 3.8.8 Applications in electric vehicles (EVs)
- 3.9 Market funding
- 3.10 Global market revenues, 2018-2034
 - 3.10.1 Total market
 - 3.10.2 By smart glass technology
 - 3.10.3 By end use markets
 - 3.10.4 By region
 - 3.10.4.1 North America
 - 3.10.4.2 Europe
 - 3.10.4.3 Asia Pacific
 - 3.10.4.4 Rest of World

4 INTRODUCTION

- 4.1 What is smart glass?
 - 4.1.1 Controlling light transmission
 - 4.1.2 Glare Reduction
 - 4.1.3 Adjustable Privacy
 - 4.1.4 Climate Control
- 4.2 Types of smart glass
 - 4.2.1 Passive smart glass
 - 4.2.2 Active smart glass
- 4.3 Comparison of smart glass technologies
- 4.4 Advanced materials in smart glass
 - 4.4.1 Nanomaterials
 - 4.4.1.1 Embedded Nanoparticle Suspensions
 - 4.4.1.2 Plasmonic Nanocrystals
 - 4.4.1.3 Quantum Dot Integration
 - 4.4.1.4 Nanowire Electrodes
 - 4.4.1.5 Thermochromic Nanocomposite Films



- 4.4.2 Ionic Gels and Ionic Liquids
- 4.4.3 Metal-Organic Frameworks (MOFs)
- 4.4.4 Transparent Luminescent Solar Concentrators
- 4.4.5 Small Bandgap Electrochromic Polymers
- 4.4.6 Soft Adaptive Liquid Crystal Elastomers

5 ELECTROCHROMIC SMART GLASS

- 5.1 Technology description
 - 5.1.1 Operating Principle
 - 5.1.2 Materials
 - 5.1.2.1 Inorganic metal oxides
 - 5.1.2.2 Organic EC materials
 - 5.1.2.3 Nanomaterials
- 5.2 Benefits
- 5.3 Limitations
- 5.4 Markets
 - 5.4.1 Residential and commercial windows
 - 5.4.2 Automotive
 - 5.4.2.1 Mirrors
 - 5.4.3 Aerospace
 - 5.4.4 Sunglasses and visors
 - 5.4.5 Flexible displays and wearables
- 5.5 Global revenues
 - 5.5.1 By market
 - 5.5.2 By region
- 5.6 Market players

6 THERMOCHROMIC SMART GLASS

- 6.1 Operating Principle
- 6.2 Benefits
- 6.3 Limitations
- 6.4 Markets
- 6.5 Global revenues
 - 6.5.1 By market
 - 6.5.2 By region
- 6.6 Market players



7 SUSPENDED PARTICLE DEVICE (SPD) SMART GLASS

- 7.1 Operating principle
- 7.2 Benefits
- 7.3 Limitations
- 7.4 Markets
 - 7.4.1 Windows
 - 7.4.2 Automotive
 - 7.4.3 Displays
 - 7.4.4 Aviation
- 7.5 Global revenues
 - 7.5.1 By market
 - 7.5.2 By region
- 7.6 Market players

8 POLYMER DISPERSED LIQUID CRYSTAL SMART GLASS (PDLC)

- 8.1 Operating principle
 - 8.1.1 Types
 - 8.1.1.1 Laminated Switchable PDLC Glass
 - 8.1.1.2 Self-adhesive Switchable PDLC Film
- 8.2 Benefits
- 8.3 Limitations
- 8.4 Markets
 - 8.4.1 Interior glass
 - 8.4.2 Healthcare
 - 8.4.3 Projection
- 8.5 Global revenues
 - 8.5.1 By market
 - 8.5.2 By region
- 8.6 Market players

9 PHOTOCHROMIC SMART GLASS

- 9.1 Operating principle
- 9.2 Benefits
- 9.3 Limitations
- 9.4 Markets
- 9.5 Market players



10 MICRO-BLINDS

- 10.1 Operating principle
- 10.2 Benefits
 - 10.2.1 Limitations
- 10.3 Markets
- 10.4 Market players

11 ELECTROKINETIC GLASS

- 11.1 Operating principle
- 11.2 Applications

12 PHOTOVOLTAIC (PV) SOLAR GLAZING

- 12.1 Technology description
- 12.2 Markets
 - 12.2.1 Building-integrated PV glazing
- 12.3 Companies

13 HEAT INSULATION SOLAR GLASS (HISG)

- 13.1 Operating principle
- 13.2 Applications

14 QUANTUM DOT SOLAR GLASS

- 14.1 Operating principle
- 14.2 Applications

15 EMERGING SMART GLASS TECHNOLOGIES

- 15.1 Self-Cleaning Smart Glass
- 15.2 Photocatalytic Coatings
- 15.3 Hydrophilic Coatings
- 15.4 Recyclable Smart Glass
- 15.5 Graphene Smart Glass
- 15.6 Electrochromic Panes



15.7 Insulating Interlayers

15.8 Liquid Crystal Elastomers

16 COMPANY PROFILES 131 (65 COMPANY PROFILES)

17 REFERENCES



List Of Tables

LIST OF TABLES

- Table 1. Mega-trends driving the smart glass market.
- Table 2. Markets for smart glass.
- Table 3. Technologies for smart windows in buildings.
- Table 4. Comparison of smart glass and smart windows types.
- Table 5. Market structure for smart glass and smart windows.
- Table 6. Manufacturers of smart film and glass, by type.
- Table 7. Routes to market for smart glass companies.
- Table 8. Commercial applications of smart glass.
- Table 9. Market and technical challenges for smart glass and smart windows, by main technology type.
- Table 10. Cost comparison with conventional glass.
- Table 11. Market funding for smart glass companies.
- Table 12. Total market revenues for smart glass, 2018-2034 (million USD).
- Table 13. Global market revenues by smart glass technology, 2018-2034 (million USD).
- Table 14. Global market revenues by end use markets, 2018-2034 (million USD).
- Table 15. Global market revenues by region, 2018-2034 (million USD).
- Table 16. Technologies controlling daylight transmission.
- Table 17. Types of passive smart glass.
- Table 18. Types of active smart glass.
- Table 19. Advantages and disadvantages of respective smart glass technologies.
- Table 20. Types of electrochromic materials and applications.
- Table 21. Global revenues for electrochromic smart glass 2018-2034, by market, (millions USD).
- Table 22. Global revenues for electrochromic smart glass 2018-2034, by region, (millions USD).
- Table 23. Market players in electrochromic smart glass.
- Table 24. Global revenues for thermochromic smart glass 2018-2034, by market, (million USD).
- Table 25. Global revenues for thermochromic smart glass 2018-2034, by region (million USD).
- Table 26. Market players in thermochromic smart glass.
- Table 27. Global revenues for suspended particle devices (SPD), smart glass 2018-2034, by market, (million USD).
- Table 28 Global revenues for suspended particle devices (SPD), smart glass 2018-2034, by region, (million USD).



- Table 29. Market players in Suspended Particle Device (SPD) smart glass.
- Table 30. Global revenues for PDLC smart glass 2018-2034, by market, (million USD).
- Table 31. Global revenues for PDLC smart glass 2018-2034, by region (million USD).
- Table 32. Market players in Polymer Dispersed Liquid Crystal (PDLC) smart glass.
- Table 33. Market players in photochromic smart glass.
- Table 34. Market players in micro-blinds.
- Table 35: Cross-section of Electro Kinetic Film.
- Table 36. Companies developing photovoltaic (PV) solar glazing.
- Table 37. Schematic of Magic Glass.



List Of Figures

LIST OF FIGURES

- Figure 1. Productivity and comfort gains achieved through window and ventilation technologies.
- Figure 2. NTT OneVision Center in Sunnyvale, California.
- Figure 3. Aquon One.
- Figure 4. Airbus Ultra-Long-Range ACJ TwoTwenty Bizjet.
- Figure 5. LG Display 55-inch Transparent OLED.
- Figure 6. BMWi Vision Circular.
- Figure 7. Smart glass roof in Cadillac Celestiq.
- Figure 8. Total market revenues for smart glass, 2018-2034 (million USD).
- Figure 9. Global market revenues by smart glass technology, 2018-2034 (million USD).
- Figure 10. Global market revenues by end use markets, 2018-2034 (million USD).
- Figure 11. Global market revenues by region, 2018-2034 (million USD).
- Figure 12. Nanocrystal smart glass that can switch between fully transparent, heat-blocking, and light-and-heat-blocking modes.
- Figure 13. Typical setup of an electrochromic device (ECD).
- Figure 14. Electrochromic smart glass schematic.
- Figure 15. Electrochromic smart glass.
- Figure 16. Examples of electrochromic smart windows each in fully coloured (left) and bleached state (right).
- Figure 17. Infinity" electrochromic mirror. Figure 18. Rear-view electrochromic mirrors, off (left image) and on (right image) state.
- Figure 19. Argil electrochromic film laminated between automotive glass for sidelite applications.
- Figure 20. Alteos Interactive Window Systems.
- Figure 21. Argil electrochromic film integrated with polycarbonate lenses.
- Figure 22. Global revenues for electrochromic smart glass 2018-2034, by market, (millions USD).
- Figure 23. Global revenues for electrochromic smart glass 2018-2034, by region, (millions USD).
- Figure 24. Thermochromic smart windows schematic.
- Figure 25. Vertical insulated glass unit for a Suntuitive® thermochromic window.
- Figure 26. Global revenues for thermochromic smart glass 2018-2034, by market, (million USD).
- Figure 27. Global revenues for electrochromic smart glass 2018-2034, by region (million USD).



- Figure 28. SPD smart windows schematic.
- Figure 29. SPD film lamination.
- Figure 30. SPD smart film schematic. Control the transmittance of light and glare by adjusting AC voltage to the SPD Film.
- Figure 31. Mercedes "Magic Sky" sunroof.
- Figure 32. BMWi Vision Circular.
- Figure 33. LG Display 55-inch Transparent OLED incorporating Gauzy technology.
- Figure 34. AW101 VVIP helicopter equipped with CROMALITE® windows.
- Figure 35. Global revenues for suspended particle devices (SPD), smart glass
- 2018-2034, by market, (million USD).
- Figure 36. Global revenues for suspended particle devices (SPD), smart glass 2018-2034, by region (million USD).
- Figure 37. PDLC schematic.
- Figure 38. Schematic of PDLC film and self-adhesive PDLC film.
- Figure 39. Smart glass made with polymer dispersed liquid crystal (PDLC) technology.
- Figure 40. Global revenues for PDLC smart glass 2018-2034, by market, (million USD).
- Figure 41. Global revenues for PDLC smart glass 2018-2034, by region (million USD).
- Figure 42. Micro-blinds schematic.
- Figure 43. Schematic of HISG.
- Figure 44. QD coated solar windows.
- Figure 45. UbiQD PV windows.
- Figure 46. e-Tint® cell in the (a) OFF and in the (b) ON states.
- Figure 47. Electrochromic products in automotive.
- Figure 48. CoverLight by Chromogenics.
- Figure 49. Application of Magic Glass in office.
- Figure 50. Installation schematic of Magic Glass.
- Figure 51. eyrise s350 Instant Solar Shading.
- Figure 52. PDLC Technology Laminated Smart Glass.
- Figure 53. SPD film glass installation at Indiana University.
- Figure 54. Schematic of Cromalite SPD film.
- Figure 55. QDSSC Module.
- Figure 56. Illustration of how the smart windows based on MEMS micromirrors would work in different daily life situations and seasons to steer light in the desired direction and manage the heat.
- Figure 57. SunSmart Solar Control Coating.
- Figure 58. SunPrism colored coatings.



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