

Smart Glass - Company Evaluation Report, 2025

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Report description:

The Smart Glass Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for Smart Glass. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and emerging trends shaping the industry. MarketsandMarkets 360 Quadrants evaluated over 100 companies, of which the Top 28 Smart Glass Companies were categorized and recognized as the quadrant leaders.

Smart glass, also referred to as switchable or dynamic glass, is a cutting-edge glazing technology capable of altering its light transmission properties in response to external stimuli such as electric current, heat, or light. This functionality allows the glass to transition between transparent, translucent, or opaque states, enabling enhanced control over privacy, lighting, and temperature. Smart glass is widely utilized in applications including energy-efficient buildings, automotive glazing, and digital displays. Key technologies that drive smart glass functionality include electrochromic, photochromic, thermochromic, suspended particle devices (SPD), and liquid crystal systems. Its energy-saving potential and user-adjustable features position smart glass as a pivotal component in contemporary architectural and technological advancements. The smart glass market is witnessing robust growth, fueled by the rising need for energy-efficient solutions in sustainable construction and green buildings, bolstered by strict environmental standards. Technologies such as electrochromic and SPD smart glass are gaining momentum for their dynamic capabilities in regulating light and heat. Within the automotive sector, smart glass is increasingly being used in sunroofs, windows, and mirrors to elevate comfort and design aesthetics. Additionally, integration into smart home environments for automated privacy and lighting functions is accelerating adoption. With growing applications in consumer electronics, declining production costs, and continuous R&D innovation, the smart glass market is expanding across diverse industries.

The 360 Quadrant maps the Smart Glass companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the Smart Glass quadrant. The top criteria for product footprint evaluation included By TYPE (Tinted, Coated, Hybrid), By CONTROL SYSTEM (Switch-Based, Remote Monitoring, Mobile-Based, Voice-Based, Building Automation System, Other Control Systems), By MECHANISM (Active, Passive), By TECHNOLOGY (Electrochromic, Suspended Particle Display (SPD), Liquid Crystal (LC), Photochromic, Thermochromic, Micro-Blinds, Other Technologies), and By END USE (Architecture, Transportation, Power Generation Plants, Other End Uses).

Key Players

Key players in the Smart Glass market include major global corporations and specialized innovators such as SAINT-GOBAIN, AGC

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INC., GENTEX CORPORATION, CORNING INCORPORATED, NIPPON SHEET GLASS CO., LTD, VIEW INC., GAUZY LTD AND ENTITIES, XINYI GLASS HOLDINGS LIMITED, RESEARCH FRONTIERS, DIAMOND SWITCHABLE GLASS LTD, PLEOTINT LLC, TAIWAN GLASS IND. CORP., FUYAO GROUP, CENTRAL GLASS CO., LTD., CHROMOGENICS, RAVENWINDOW, POLYTRONIX, INC., PGW AUTO GLASS, LLC, AGP GROUP, SPD CONTROL SYSTEMS CORPORATION, SCIENSTRY, INC., INNOVATIVE GLASS CORP., HALIO, INC., MIRU SMART TECHNOLOGIES, MERCK KGAA, HUICHI INDUSTRIAL DEVELOPMENT CO.,LTD, PRO DISPLAY, and SKYLINE DESIGN. These companies are actively investing in research and development, forming strategic partnerships, and engaging in collaborative initiatives to drive innovation, expand their global footprint, and maintain a competitive edge in this rapidly evolving market.

Top Three Companies Analysis

Saint-Gobain

Saint-Gobain is a major contender in light and sustainable construction, offering a wide range of products, including smart glass under the Sage Glass brand. The company emphasizes sustainable solutions and operates across various regions, including the Americas, Europe, and Asia. With its extensive product portfolio and research capabilities, Saint-Gobain maintains a competitive market share by leveraging its geographic reach and continuous innovation.

AGC Inc.

AGC Inc. stands out as a leader in the smart glass sector, focusing on architectural and automotive glass segments. The company is known for its high-tech glass for advanced mobility and its strategic focus on environmental solutions. AGC Inc. benefits from a strong presence in Asia and globally, emphasizing innovation to meet market demands and strengthen its market positioning.

Gentex Corporation

Gentex Corporation, primarily servicing the automotive industry, has built its market position on partnerships and advanced technology integration. It leverages a strong North American presence to manufacture and innovate in smart glass technology, contributing significantly to its growing market share. Gentex's strategy includes expanding its product portfolio and strengthening partnerships to enhance its industry standing.

Table of Contents:

- 1 INTRODUCTION 11
- 1.1 MARKET DEFINITION 11
- 1.2 INCLUSIONS AND EXCLUSIONS 11
- 1.3 STAKEHOLDERS 11
- 2 EXECUTIVE SUMMARY 12
- 3 MARKET OVERVIEW 15
- 3.1 INTRODUCTION 15
- 3.2 MARKET DYNAMICS 15
- 3.2.1 DRIVERS 16
- 3.2.1.1 Use of smart glass in modern luxury cars 16
- 3.2.1.2 Integration of electrochromic materials into smart glasses 17
- 3.2.1.3 Rising need to balance energy supply and demand 17
- 3.2.1.4 Emphasis on promoting low-carbon economy 18
- 3.2.1.5 Growing demand in construction and real estate sectors 19
- 3.2.2 RESTRAINTS 20
- 3.2.2.1 High initial investments and upfront costs for implementing smart glasses 20
- 3.2.2.2 Operational and functional challenges related to smart glass technology 20
- 3.2.2.3 Complex manufacturing processes associated with smart glass 20
- 3.2.3 OPPORTUNITIES 21

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3.2.3.1	Growing trend of minimalist designs	21
3.2.3.2	Increasing demand for alternative power sources due to rising energy costs	22
3.2.3.3	Rising emphasis on developing and commercializing smart glass technologies	22
3.2.3.4	Increasing demand for sustainable buildings	23
3.2.3.5	Growing demand for energy-efficient products	24
3.2.4	CHALLENGES	25
3.2.4.1	Lack of awareness about long-term benefits of smart glass technology	25
3.2.4.2	Compliance with building codes and regulations	26
3.3	VALUE CHAIN ANALYSIS	26
3.4	ECOSYSTEM ANALYSIS	28
3.5	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	30
3.6	TECHNOLOGY ANALYSIS	31
3.6.1	KEY TECHNOLOGIES	31
3.6.1.1	Electrochromic	31
3.6.2	COMPLEMENTARY TECHNOLOGIES	31
3.6.2.1	IoT and smart home systems	31
3.6.3	ADJACENT TECHNOLOGIES	31
3.6.3.1	Photovoltaics	31
3.7	PORTER'S FIVE FORCES ANALYSIS	32
3.7.1	INTENSITY OF COMPETITIVE RIVALRY	33
3.7.2	BARGAINING POWER OF SUPPLIERS	33
3.7.3	BARGAINING POWER OF BUYERS	33
3.7.4	THREAT OF SUBSTITUTES	33
3.7.5	THREAT OF NEW ENTRANTS	33
3.8	PATENT ANALYSIS	33
3.9	IMPACT OF AI ON SMART GLASS MARKET	35
3.9.1	INTRODUCTION	35
4	COMPETITIVE LANDSCAPE	37
4.1	OVERVIEW	37
4.2	KEY PLAYER STRATEGIES/RIGHT TO WIN, 2021-2024	37
4.3	REVENUE ANALYSIS, 2019-2023	39
4.4	MARKET SHARE ANALYSIS, 2024	39
4.5	COMPANY VALUATION AND FINANCIAL METRICS, 2024	42
4.6	COVERAGE AREA/RESPONSE TIME COMPARISON	43
4.7	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024	43
4.7.1	STARS	43
4.7.2	EMERGING LEADERS	43
4.7.3	PERVASIVE PLAYERS	44
4.7.4	PARTICIPANTS	44
4.7.5	COMPANY FOOTPRINT: KEY PLAYERS, 2024	45
4.7.5.1	Company footprint	45
4.7.5.2	Region footprint	46
4.7.5.3	Technology footprint	47
4.7.5.4	Mechanism footprint	48

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- 4.7.5.5 End use footprint 49
- 4.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024 50
 - 4.8.1 PROGRESSIVE COMPANIES 50
 - 4.8.2 RESPONSIVE COMPANIES 50
 - 4.8.3 DYNAMIC COMPANIES 50
 - 4.8.4 STARTING BLOCKS 50
 - 4.8.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2024 52
 - 4.8.5.1 Detailed list of key startups/SMEs 52
 - 4.8.5.2 Competitive benchmarking of key startups/SMEs 52
- 4.9 COMPETITIVE SCENARIO 53
 - 4.9.1 PRODUCT LAUNCHES 53
 - 4.9.2 DEALS 54
 - 4.9.3 EXPANSIONS 58
- 5 COMPANY PROFILES 59
 - 5.1 KEY PLAYERS 59
 - 5.1.1 SAINT-GOBAIN 59
 - 5.1.1.1 Business overview 59
 - 5.1.1.2 Products/Solutions/Services offered 60
 - 5.1.1.3 Recent developments 61
 - 5.1.1.3.1 Deals 61
 - 5.1.1.4 MnM view 62
 - 5.1.1.4.1 Key strengths/Right to win 62
 - 5.1.1.4.2 Strategic choices 62
 - 5.1.1.4.3 Weaknesses/Competitive threats 62
 - 5.1.2 AGC INC. 63
 - 5.1.2.1 Business overview 63
 - 5.1.2.2 Products/Solutions/Services offered 64
 - 5.1.2.3 Recent developments 65
 - 5.1.2.3.1 Product launches 65
 - 5.1.2.3.2 Deals 65
 - 5.1.2.3.3 Other developments 65
 - 5.1.2.4 MnM view 66
 - 5.1.2.4.1 Key strengths/Right to win 66
 - 5.1.2.4.2 Strategic choices 66
 - 5.1.2.4.3 Weaknesses/Competitive threats 66
 - 5.1.3 GENTEX CORPORATION 67
 - 5.1.3.1 Business overview 67
 - 5.1.3.2 Products/Solutions/Services offered 68
 - 5.1.3.3 Recent developments 69
 - 5.1.3.3.1 Deals 69
 - 5.1.3.3.2 Expansions 70
 - 5.1.3.4 MnM view 70
 - 5.1.3.4.1 Key strengths/Right to win 70
 - 5.1.3.4.2 Strategic choices 70
 - 5.1.3.4.3 Weaknesses/Competitive threats 70
 - 5.1.4 CORNING INCORPORATED 71

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5.1.4.1	Business overview	71
5.1.4.2	Products/Solutions/Services offered	72
5.1.4.3	Recent developments	73
5.1.4.3.1	Deals	73
5.1.4.4	MnM view	73
5.1.4.4.1	Key strengths/Right to win	73
5.1.4.4.2	Strategic choices	73
5.1.4.4.3	Weaknesses/Competitive threats	74
5.1.5	NIPPON SHEET GLASS CO., LTD	75
5.1.5.1	Business overview	75
5.1.5.2	Products/Solutions/Services offered	77
5.1.5.3	Recent developments	77
5.1.5.3.1	Expansions	77
5.1.5.4	MnM view	78
5.1.5.4.1	Key strengths/Right to win	78
5.1.5.4.2	Strategic choices	78
5.1.5.4.3	Weaknesses/Competitive threats	78
5.1.6	VIEW INC.	79
5.1.6.1	Business overview	79
5.1.6.2	Products/Solutions/Services offered	79
5.1.6.3	Recent developments	80
5.1.6.3.1	Deals	80
5.1.7	GAUZY LTD AND ENTITIES	81
5.1.7.1	Business overview	81
5.1.7.2	Products/Solutions/Services offered	81
5.1.7.3	Recent developments	82
5.1.7.3.1	Deals	82
5.1.8	XINYI GLASS HOLDINGS LIMITED	83
5.1.8.1	Business overview	83
5.1.8.2	Products/Solutions/Services offered	85
5.1.9	RESEARCH FRONTIERS	86
5.1.9.1	Business overview	86
5.1.9.2	Products/Solutions/Services offered	87
5.1.9.3	Recent developments	87
5.1.9.3.1	Product launches	87
5.1.10	DIAMOND SWITCHABLE GLASS LTD	88
5.1.10.1	Business overview	88
5.1.10.2	Products/Solutions/Services offered	88
5.2	OTHER PLAYERS	89
5.2.1	PLEOTINT LLC	89
5.2.2	TAIWAN GLASS IND. CORP.	89
5.2.3	FUYAO GROUP	90
5.2.4	CENTRAL GLASS CO., LTD.	91
5.2.5	CHROMOGENICS	91
5.2.6	RAVENWINDOW	92
5.2.7	POLYTRONIX, INC.	92
5.2.8	PGW AUTO GLASS, LLC	93

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5.2.9	AGP GROUP	93
5.2.10	SPD CONTROL SYSTEMS CORPORATION	94
5.2.11	SCIENSTRY, INC.	95
5.2.12	INNOVATIVE GLASS CORP.	96
5.2.13	HALIO, INC.	96
5.2.14	MIRU SMART TECHNOLOGIES	97
5.2.15	MERCK KGAA	97
5.2.16	HUICHI INDUSTRIAL DEVELOPMENT CO.,LTD	98
5.2.17	PRO DISPLAY	98
5.2.18	SKYLINE DESIGN	99
6	APPENDIX	100
6.1	RESEARCH METHODOLOGY	100
6.1.1	RESEARCH DATA	100
6.1.1.1	Secondary data	101
6.1.1.2	Primary data	101
6.1.2	RESEARCH ASSUMPTIONS	102
6.1.3	RESEARCH LIMITATIONS	102
6.1.4	RISK ANALYSIS	103
6.2	COMPANY EVALUATION MATRIX: METHODOLOGY	103
6.3	AUTHOR DETAILS	106

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