

# Global LOW-E Glass Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global LOW-E Glass market size is expected to reach \$ 35150 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

Low emissivity coated glass is also called Low-E glass. Low-E glass is a kind of glass whose surface is coated with low emissivity coating silver and metal-oxide film so that the glass takes on different colors. Its main functions are to reduce the U value of glass, selectively reduce  $S_c$  and comprehensively improve energy saving property of glass. Its main features: high infrared reflectivity, ability to directly reflect far infrared thermal radiation, low surface emissivity, weak ability to absorb external energy, hence little reradiated heat energy; wide range of shading coefficient SC, and ability to control sun light transmittance according to needs to cater to requirements of different areas. It can be divided into high transmission low-E glass and sun shading low-E glass.

High transmission Low-E glass: shading coefficient of  $S_c > 0.5$ , reducing little transmitted sun light. It is very suitable to be used in the northern area which usually adopts heating system. In winter, sun rays can penetrate this kind of Low-E glass to reach houses. After absorbed by indoor objects, they become far infrared thermal radiation not able to penetrate Low-E glass. Such thermal radiation is confined indoors together with the thermal radiation emitted by indoor heaters, so that heating costs can be reduced.

Sun-shading Low-E glass: shading coefficient of  $S_c < 0.5$ , reducing much transmitted sun light. It is very suitable to be used in the southern area which usually uses air-conditioners. In summer, it can to the largest extent prevent sun rays from reaching houses as well as block far infrared thermal radiation from outdoors, so that the costs of air conditioning can be reduced.

According to the layer of silver contained in the film structure, it can also be divided into single-silver Low-E glass, double-silver Low-E glass and three-silver low-E glass. On some occasions, a kind of Low-E product that is high-transmitting and requires very low shading coefficient is needed. Therefore, double-silver Low-E glass came into being. In normal cases, if the shading coefficient is the same, double-silver Low-E glass has higher visible light transmissivity than single-silver Low-E glass. Three-silver Low-E glass with the same shading efficient has even higher visible light transmissivity. Double-silver glass can be used on nearly any occasion. It has the following several characteristics: lower shading coefficient than sun shading Low-E glass, low radiance, heat preservation, low reflectivity, and fine permeability.

### Definition of Low-E Insulating Glass and Comparison between it and Common Single Glazing and Common Insulating Glass in Energy-saving

Low-E insulating glass is preferred kind of energy-efficient building materials for energy-saving buildings advocated by the country. It reaches and even far exceeds the national required standards for energy conservation of materials used in public buildings and residential buildings. Relying on vacuum magnetron sputtering method, it, after the surface of common building glass is coated with metallic silver and auxiliary layer, is integrated with another piece of glass through various technology into insulating glass with dry air in the middle. Compared with common energy-saving glass, Low-E insulating glass can, through silver's very high reflectivity of heat radiation, keep more energy from sunlight outdoors in summer while ensuring natural lighting indoors. In winter, it better prevents indoor heat from getting out of room from the glass, so that obvious effects of energy conservation for building can be produced. Compared with common single glazing, energy-saving glass (Low-E insulating glass) can better preserve heat. It can save 67-70% of energy, consuming around 40% less energy compared to common insulating glass (see the table below).

### Solar Control Low-E Laminated Glass (Third Generation Low-E Laminated Glass)

Solar control Low-E laminated glass refers to energy-saving laminated glass formed after special Low-E glass manufactured through vacuum magnetron sputtering method are then processed through special lamination technology. Compared with foreign XIR laminated glass, solar control Low-E laminated glass features multiple variety, abundant colors, superior performance, and wide applicable scope. In processing, solar control low-E film is stable in quality.

The major global manufacturers of low radiation Glass are Saint-Gobain, NSG, PPG,

AGC, Guardian Industries, Schott and Cardinal Glass.

This report studies the global LOW-E Glass production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for LOW-E Glass and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of LOW-E Glass that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global LOW-E Glass total production and demand, 2021-2032, (K Sq.m)

Global LOW-E Glass total production value, 2021-2032, (USD Million)

Global LOW-E Glass production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sq.m), (based on production site)

Global LOW-E Glass consumption by region & country, CAGR, 2021-2032 & (K Sq.m)

U.S. VS China: LOW-E Glass domestic production, consumption, key domestic manufacturers and share

Global LOW-E Glass production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sq.m)

Global LOW-E Glass production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sq.m)

Global LOW-E Glass production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sq.m)

This report profiles key players in the global LOW-E Glass market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Saint-gobain, NSG, PPG, AGC, Guardian Industries, Schott, Cardinal Glass, Padihamglass, CSG Holding, Xinyi Glass, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World LOW-E Glass market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sq.m) and average price (USD/Sq.m) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### Global LOW-E Glass Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global LOW-E Glass Market, Segmentation by Type:

Single LOW-E Glass

Double LOW-E Glass

Triple LOW-E Glass

### Global LOW-E Glass Market, Segmentation by Application:

Residential

Commercial

Others

Companies Profiled:

Saint-gobain

NSG

PPG

AGC

Guardian Industries

Schott

Cardinal Glass

Padihamglass

CSG Holding

Xinyi Glass

Yaohua Pilkington Glass

Taiwan Glass

Blue Star Glass

Sanxin Glass

Qingdao Jinjing

Kibing Group

Huadong Coating Glass

Zhongli Holding

**Key Questions Answered:**

1. How big is the global LOW-E Glass market?
2. What is the demand of the global LOW-E Glass market?
3. What is the year over year growth of the global LOW-E Glass market?
4. What is the production and production value of the global LOW-E Glass market?
5. Who are the key producers in the global LOW-E Glass market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 SCADA Introduction
- 1.2 World SCADA Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World SCADA Total Market by Region (by Headquarter Location)
  - 1.3.1 World SCADA Market Size by Region (2021-2032), (by Headquarter Location)
  - 1.3.2 United States Based Company SCADA Revenue (2021-2032)
  - 1.3.3 China Based Company SCADA Revenue (2021-2032)
  - 1.3.4 Europe Based Company SCADA Revenue (2021-2032)
  - 1.3.5 Japan Based Company SCADA Revenue (2021-2032)
  - 1.3.6 South Korea Based Company SCADA Revenue (2021-2032)
  - 1.3.7 ASEAN Based Company SCADA Revenue (2021-2032)
  - 1.3.8 India Based Company SCADA Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 SCADA Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World SCADA Consumption Value (2021-2032)
- 2.2 World SCADA Consumption Value by Region
  - 2.2.1 World SCADA Consumption Value by Region (2021-2026)
  - 2.2.2 World SCADA Consumption Value Forecast by Region (2027-2032)
- 2.3 United States SCADA Consumption Value (2021-2032)
- 2.4 China SCADA Consumption Value (2021-2032)
- 2.5 Europe SCADA Consumption Value (2021-2032)
- 2.6 Japan SCADA Consumption Value (2021-2032)
- 2.7 South Korea SCADA Consumption Value (2021-2032)
- 2.8 ASEAN SCADA Consumption Value (2021-2032)
- 2.9 India SCADA Consumption Value (2021-2032)

### 3 WORLD SCADA COMPANIES COMPETITIVE ANALYSIS

- 3.1 World SCADA Revenue by Player (2021-2026)
- 3.2 Industry Rank and Concentration Rate (CR)
  - 3.2.1 Global SCADA Industry Rank of Major Players

- 3.2.2 Global Concentration Ratios (CR4) for SCADA in 2025
- 3.2.3 Global Concentration Ratios (CR8) for SCADA in 2025
- 3.3 SCADA Company Evaluation Quadrant
- 3.4 SCADA Market: Overall Company Footprint Analysis
  - 3.4.1 SCADA Market: Region Footprint
  - 3.4.2 SCADA Market: Company Product Type Footprint
  - 3.4.3 SCADA Market: Company Product Application Footprint
- 3.5 Competitive Environment
  - 3.5.1 Historical Structure of the Industry
  - 3.5.2 Barriers of Market Entry
  - 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

## **4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)**

- 4.1 United States VS China: SCADA Revenue Comparison (by Headquarter Location)
  - 4.1.1 United States VS China: SCADA Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
  - 4.1.2 United States VS China: SCADA Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: SCADA Consumption Value Comparison
  - 4.2.1 United States VS China: SCADA Consumption Value Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: SCADA Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States Based SCADA Companies and Market Share, 2021-2026
  - 4.3.1 United States Based SCADA Companies, Headquarters (States, Country)
  - 4.3.2 United States Based Companies SCADA Revenue, (2021-2026)
- 4.4 China Based Companies SCADA Revenue and Market Share, 2021-2026
  - 4.4.1 China Based SCADA Companies, Company Headquarters (Province, Country)
  - 4.4.2 China Based Companies SCADA Revenue, (2021-2026)
- 4.5 Rest of World Based SCADA Companies and Market Share, 2021-2026
  - 4.5.1 Rest of World Based SCADA Companies, Headquarters (Province, Country)
  - 4.5.2 Rest of World Based Companies SCADA Revenue (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

## 5.1 World SCADA Market Size Overview by Type: 2021 VS 2025 VS 2032

### 5.2 Segment Introduction by Type

#### 5.2.1 Hardware

#### 5.2.2 Software

#### 5.2.3 Services

### 5.3 Market Segment by Type

#### 5.3.1 World SCADA Market Size by Type (2021-2026)

#### 5.3.2 World SCADA Market Size by Type (2027-2032)

#### 5.3.3 World SCADA Market Size Market Share by Type (2027-2032)

## 6 MARKET ANALYSIS BY APPLICATION

### 6.1 World SCADA Market Size Overview by Application: 2021 VS 2025 VS 2032

#### 6.2 Segment Introduction by Application

##### 6.2.1 Power & Energy

##### 6.2.2 Oil & Gas Industry

##### 6.2.3 Water & Waste Control

##### 6.2.4 Telecommunications

##### 6.2.5 Transportation

##### 6.2.6 Manufacturing Industry

##### 6.2.7 Others

#### 6.3 Market Segment by Application

##### 6.3.1 World SCADA Market Size by Application (2021-2026)

##### 6.3.2 World SCADA Market Size by Application (2027-2032)

##### 6.3.3 World SCADA Market Size Market Share by Application (2021-2032)

## 7 COMPANY PROFILES

### 7.1 Schneider Electric SE (France)

#### 7.1.1 Schneider Electric SE (France) Details

#### 7.1.2 Schneider Electric SE (France) Major Business

#### 7.1.3 Schneider Electric SE (France) SCADA Product and Services

#### 7.1.4 Schneider Electric SE (France) SCADA Revenue, Gross Margin and Market Share (2021-2026)

#### 7.1.5 Schneider Electric SE (France) Recent Developments/Updates

#### 7.1.6 Schneider Electric SE (France) Competitive Strengths & Weaknesses

### 7.2 ABB (Switzerland)

#### 7.2.1 ABB (Switzerland) Details

#### 7.2.2 ABB (Switzerland) Major Business

- 7.2.3 ABB (Switzerland) SCADA Product and Services
- 7.2.4 ABB (Switzerland) SCADA Revenue, Gross Margin and Market Share (2021-2026)
- 7.2.5 ABB (Switzerland) Recent Developments/Updates
- 7.2.6 ABB (Switzerland) Competitive Strengths & Weaknesses
- 7.3 Siemens AG (Germany)
  - 7.3.1 Siemens AG (Germany) Details
  - 7.3.2 Siemens AG (Germany) Major Business
  - 7.3.3 Siemens AG (Germany) SCADA Product and Services
  - 7.3.4 Siemens AG (Germany) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.3.5 Siemens AG (Germany) Recent Developments/Updates
  - 7.3.6 Siemens AG (Germany) Competitive Strengths & Weaknesses
- 7.4 Emerson (US)
  - 7.4.1 Emerson (US) Details
  - 7.4.2 Emerson (US) Major Business
  - 7.4.3 Emerson (US) SCADA Product and Services
  - 7.4.4 Emerson (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.4.5 Emerson (US) Recent Developments/Updates
  - 7.4.6 Emerson (US) Competitive Strengths & Weaknesses
- 7.5 Rockwell Automation Inc. (US)
  - 7.5.1 Rockwell Automation Inc. (US) Details
  - 7.5.2 Rockwell Automation Inc. (US) Major Business
  - 7.5.3 Rockwell Automation Inc. (US) SCADA Product and Services
  - 7.5.4 Rockwell Automation Inc. (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.5.5 Rockwell Automation Inc. (US) Recent Developments/Updates
  - 7.5.6 Rockwell Automation Inc. (US) Competitive Strengths & Weaknesses
- 7.6 Honeywell International Inc. (US)
  - 7.6.1 Honeywell International Inc. (US) Details
  - 7.6.2 Honeywell International Inc. (US) Major Business
  - 7.6.3 Honeywell International Inc. (US) SCADA Product and Services
  - 7.6.4 Honeywell International Inc. (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.6.5 Honeywell International Inc. (US) Recent Developments/Updates
  - 7.6.6 Honeywell International Inc. (US) Competitive Strengths & Weaknesses
- 7.7 Mitsubishi Electric (Japan)
  - 7.7.1 Mitsubishi Electric (Japan) Details
  - 7.7.2 Mitsubishi Electric (Japan) Major Business

- 7.7.3 Mitsubishi Electric (Japan) SCADA Product and Services
- 7.7.4 Mitsubishi Electric (Japan) SCADA Revenue, Gross Margin and Market Share (2021-2026)
- 7.7.5 Mitsubishi Electric (Japan) Recent Developments/Updates
- 7.7.6 Mitsubishi Electric (Japan) Competitive Strengths & Weaknesses
- 7.8 Omron Corporation (Japan)
  - 7.8.1 Omron Corporation (Japan) Details
  - 7.8.2 Omron Corporation (Japan) Major Business
  - 7.8.3 Omron Corporation (Japan) SCADA Product and Services
  - 7.8.4 Omron Corporation (Japan) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.8.5 Omron Corporation (Japan) Recent Developments/Updates
  - 7.8.6 Omron Corporation (Japan) Competitive Strengths & Weaknesses
- 7.9 General Electric Co. (US)
  - 7.9.1 General Electric Co. (US) Details
  - 7.9.2 General Electric Co. (US) Major Business
  - 7.9.3 General Electric Co. (US) SCADA Product and Services
  - 7.9.4 General Electric Co. (US) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.9.5 General Electric Co. (US) Recent Developments/Updates
  - 7.9.6 General Electric Co. (US) Competitive Strengths & Weaknesses
- 7.10 Yokogawa Electric Corporation (Japan)
  - 7.10.1 Yokogawa Electric Corporation (Japan) Details
  - 7.10.2 Yokogawa Electric Corporation (Japan) Major Business
  - 7.10.3 Yokogawa Electric Corporation (Japan) SCADA Product and Services
  - 7.10.4 Yokogawa Electric Corporation (Japan) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.10.5 Yokogawa Electric Corporation (Japan) Recent Developments/Updates
  - 7.10.6 Yokogawa Electric Corporation (Japan) Competitive Strengths & Weaknesses
- 7.11 Larsen & Toubro (India)
  - 7.11.1 Larsen & Toubro (India) Details
  - 7.11.2 Larsen & Toubro (India) Major Business
  - 7.11.3 Larsen & Toubro (India) SCADA Product and Services
  - 7.11.4 Larsen & Toubro (India) SCADA Revenue, Gross Margin and Market Share (2021-2026)
  - 7.11.5 Larsen & Toubro (India) Recent Developments/Updates
  - 7.11.6 Larsen & Toubro (India) Competitive Strengths & Weaknesses
- 7.12 M.B. Control & Systems Pvt. Ltd (India)
  - 7.12.1 M.B. Control & Systems Pvt. Ltd (India) Details

- 7.12.2 M.B. Control & Systems Pvt. Ltd (India) Major Business
- 7.12.3 M.B. Control & Systems Pvt. Ltd (India) SCADA Product and Services
- 7.12.4 M.B. Control & Systems Pvt. Ltd (India) SCADA Revenue, Gross Margin and Market Share (2021-2026)
- 7.12.5 M.B. Control & Systems Pvt. Ltd (India) Recent Developments/Updates
- 7.12.6 M.B. Control & Systems Pvt. Ltd (India) Competitive Strengths & Weaknesses

## **8 INDUSTRY CHAIN ANALYSIS**

- 8.1 SCADA Industry Chain
- 8.2 SCADA Upstream Analysis
- 8.3 SCADA Midstream Analysis
- 8.4 SCADA Downstream Analysis

## **9 RESEARCH FINDINGS AND CONCLUSION**

## **10 APPENDIX**

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. World LOW-E Glass Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World LOW-E Glass Production Value by Region (2021-2026) & (USD Million)
- Table 3. World LOW-E Glass Production Value by Region (2027-2032) & (USD Million)
- Table 4. World LOW-E Glass Production Value Market Share by Region (2021-2026)
- Table 5. World LOW-E Glass Production Value Market Share by Region (2027-2032)
- Table 6. World LOW-E Glass Production by Region (2021-2026) & (K Sq.m)
- Table 7. World LOW-E Glass Production by Region (2027-2032) & (K Sq.m)
- Table 8. World LOW-E Glass Production Market Share by Region (2021-2026)
- Table 9. World LOW-E Glass Production Market Share by Region (2027-2032)
- Table 10. World LOW-E Glass Average Price by Region (2021-2026) & (USD/Sq.m)
- Table 11. World LOW-E Glass Average Price by Region (2027-2032) & (USD/Sq.m)
- Table 12. LOW-E Glass Major Market Trends
- Table 13. World LOW-E Glass Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Sq.m)
- Table 14. World LOW-E Glass Consumption by Region (2021-2026) & (K Sq.m)
- Table 15. World LOW-E Glass Consumption Forecast by Region (2027-2032) & (K Sq.m)
- Table 16. World LOW-E Glass Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key LOW-E Glass Producers in 2025
- Table 18. World LOW-E Glass Production by Manufacturer (2021-2026) & (K Sq.m)
- Table 19. Production Market Share of Key LOW-E Glass Producers in 2025
- Table 20. World LOW-E Glass Average Price by Manufacturer (2021-2026) & (USD/Sq.m)
- Table 21. Global LOW-E Glass Company Evaluation Quadrant
- Table 22. World LOW-E Glass Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and LOW-E Glass Production Site of Key Manufacturer
- Table 24. LOW-E Glass Market: Company Product Type Footprint
- Table 25. LOW-E Glass Market: Company Product Application Footprint
- Table 26. LOW-E Glass Competitive Factors
- Table 27. LOW-E Glass New Entrant and Capacity Expansion Plans
- Table 28. LOW-E Glass Mergers & Acquisitions Activity
- Table 29. United States VS China LOW-E Glass Production Value Comparison, (2021 &

2025 & 2032) & (USD Million)

Table 30. United States VS China LOW-E Glass Production Comparison, (2021 & 2025 & 2032) & (K Sq.m)

Table 31. United States VS China LOW-E Glass Consumption Comparison, (2021 & 2025 & 2032) & (K Sq.m)

Table 32. United States Based LOW-E Glass Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers LOW-E Glass Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers LOW-E Glass Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers LOW-E Glass Production (2021-2026) & (K Sq.m)

Table 36. United States Based Manufacturers LOW-E Glass Production Market Share (2021-2026)

Table 37. China Based LOW-E Glass Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers LOW-E Glass Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers LOW-E Glass Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers LOW-E Glass Production, (2021-2026) & (K Sq.m)

Table 41. China Based Manufacturers LOW-E Glass Production Market Share (2021-2026)

Table 42. Rest of World Based LOW-E Glass Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers LOW-E Glass Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers LOW-E Glass Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers LOW-E Glass Production, (2021-2026) & (K Sq.m)

Table 46. Rest of World Based Manufacturers LOW-E Glass Production Market Share (2021-2026)

Table 47. World LOW-E Glass Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World LOW-E Glass Production by Type (2021-2026) & (K Sq.m)

Table 49. World LOW-E Glass Production by Type (2027-2032) & (K Sq.m)

- Table 50. World LOW-E Glass Production Value by Type (2021-2026) & (USD Million)
- Table 51. World LOW-E Glass Production Value by Type (2027-2032) & (USD Million)
- Table 52. World LOW-E Glass Average Price by Type (2021-2026) & (USD/Sq.m)
- Table 53. World LOW-E Glass Average Price by Type (2027-2032) & (USD/Sq.m)
- Table 54. World LOW-E Glass Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 55. World LOW-E Glass Production by Application (2021-2026) & (K Sq.m)
- Table 56. World LOW-E Glass Production by Application (2027-2032) & (K Sq.m)
- Table 57. World LOW-E Glass Production Value by Application (2021-2026) & (USD Million)
- Table 58. World LOW-E Glass Production Value by Application (2027-2032) & (USD Million)
- Table 59. World LOW-E Glass Average Price by Application (2021-2026) & (USD/Sq.m)
- Table 60. World LOW-E Glass Average Price by Application (2027-2032) & (USD/Sq.m)
- Table 61. Saint-gobain Basic Information, Manufacturing Base and Competitors
- Table 62. Saint-gobain Major Business
- Table 63. Saint-gobain LOW-E Glass Product and Services
- Table 64. Saint-gobain LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 65. Saint-gobain Recent Developments/Updates
- Table 66. Saint-gobain Competitive Strengths & Weaknesses
- Table 67. NSG Basic Information, Manufacturing Base and Competitors
- Table 68. NSG Major Business
- Table 69. NSG LOW-E Glass Product and Services
- Table 70. NSG LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 71. NSG Recent Developments/Updates
- Table 72. NSG Competitive Strengths & Weaknesses
- Table 73. PPG Basic Information, Manufacturing Base and Competitors
- Table 74. PPG Major Business
- Table 75. PPG LOW-E Glass Product and Services
- Table 76. PPG LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 77. PPG Recent Developments/Updates
- Table 78. PPG Competitive Strengths & Weaknesses
- Table 79. AGC Basic Information, Manufacturing Base and Competitors
- Table 80. AGC Major Business
- Table 81. AGC LOW-E Glass Product and Services
- Table 82. AGC LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value

(USD Million), Gross Margin and Market Share (2021-2026)

Table 83. AGC Recent Developments/Updates

Table 84. AGC Competitive Strengths & Weaknesses

Table 85. Guardian Industries Basic Information, Manufacturing Base and Competitors

Table 86. Guardian Industries Major Business

Table 87. Guardian Industries LOW-E Glass Product and Services

Table 88. Guardian Industries LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. Guardian Industries Recent Developments/Updates

Table 90. Guardian Industries Competitive Strengths & Weaknesses

Table 91. Schott Basic Information, Manufacturing Base and Competitors

Table 92. Schott Major Business

Table 93. Schott LOW-E Glass Product and Services

Table 94. Schott LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 95. Schott Recent Developments/Updates

Table 96. Schott Competitive Strengths & Weaknesses

Table 97. Cardinal Glass Basic Information, Manufacturing Base and Competitors

Table 98. Cardinal Glass Major Business

Table 99. Cardinal Glass LOW-E Glass Product and Services

Table 100. Cardinal Glass LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 101. Cardinal Glass Recent Developments/Updates

Table 102. Cardinal Glass Competitive Strengths & Weaknesses

Table 103. Padihamglass Basic Information, Manufacturing Base and Competitors

Table 104. Padihamglass Major Business

Table 105. Padihamglass LOW-E Glass Product and Services

Table 106. Padihamglass LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 107. Padihamglass Recent Developments/Updates

Table 108. Padihamglass Competitive Strengths & Weaknesses

Table 109. CSG Holding Basic Information, Manufacturing Base and Competitors

Table 110. CSG Holding Major Business

Table 111. CSG Holding LOW-E Glass Product and Services

Table 112. CSG Holding LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 113. CSG Holding Recent Developments/Updates

Table 114. CSG Holding Competitive Strengths & Weaknesses

Table 115. Xinyi Glass Basic Information, Manufacturing Base and Competitors

- Table 116. Xinyi Glass Major Business
- Table 117. Xinyi Glass LOW-E Glass Product and Services
- Table 118. Xinyi Glass LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 119. Xinyi Glass Recent Developments/Updates
- Table 120. Xinyi Glass Competitive Strengths & Weaknesses
- Table 121. Yaohua Pilkington Glass Basic Information, Manufacturing Base and Competitors
- Table 122. Yaohua Pilkington Glass Major Business
- Table 123. Yaohua Pilkington Glass LOW-E Glass Product and Services
- Table 124. Yaohua Pilkington Glass LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 125. Yaohua Pilkington Glass Recent Developments/Updates
- Table 126. Yaohua Pilkington Glass Competitive Strengths & Weaknesses
- Table 127. Taiwan Glass Basic Information, Manufacturing Base and Competitors
- Table 128. Taiwan Glass Major Business
- Table 129. Taiwan Glass LOW-E Glass Product and Services
- Table 130. Taiwan Glass LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 131. Taiwan Glass Recent Developments/Updates
- Table 132. Taiwan Glass Competitive Strengths & Weaknesses
- Table 133. Blue Star Glass Basic Information, Manufacturing Base and Competitors
- Table 134. Blue Star Glass Major Business
- Table 135. Blue Star Glass LOW-E Glass Product and Services
- Table 136. Blue Star Glass LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 137. Blue Star Glass Recent Developments/Updates
- Table 138. Blue Star Glass Competitive Strengths & Weaknesses
- Table 139. Sanxin Glass Basic Information, Manufacturing Base and Competitors
- Table 140. Sanxin Glass Major Business
- Table 141. Sanxin Glass LOW-E Glass Product and Services
- Table 142. Sanxin Glass LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 143. Sanxin Glass Recent Developments/Updates
- Table 144. Sanxin Glass Competitive Strengths & Weaknesses
- Table 145. Qingdao Jinjing Basic Information, Manufacturing Base and Competitors
- Table 146. Qingdao Jinjing Major Business
- Table 147. Qingdao Jinjing LOW-E Glass Product and Services

Table 148. Qingdao Jinjing LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 149. Qingdao Jinjing Recent Developments/Updates

Table 150. Qingdao Jinjing Competitive Strengths & Weaknesses

Table 151. Kibing Group Basic Information, Manufacturing Base and Competitors

Table 152. Kibing Group Major Business

Table 153. Kibing Group LOW-E Glass Product and Services

Table 154. Kibing Group LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 155. Kibing Group Recent Developments/Updates

Table 156. Kibing Group Competitive Strengths & Weaknesses

Table 157. Huadong Coating Glass Basic Information, Manufacturing Base and Competitors

Table 158. Huadong Coating Glass Major Business

Table 159. Huadong Coating Glass LOW-E Glass Product and Services

Table 160. Huadong Coating Glass LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 161. Huadong Coating Glass Recent Developments/Updates

Table 162. Huadong Coating Glass Competitive Strengths & Weaknesses

Table 163. Zhongli Holding Basic Information, Manufacturing Base and Competitors

Table 164. Zhongli Holding Major Business

Table 165. Zhongli Holding LOW-E Glass Product and Services

Table 166. Zhongli Holding LOW-E Glass Production (K Sq.m), Price (USD/Sq.m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 167. Zhongli Holding Recent Developments/Updates

Table 168. Zhongli Holding Competitive Strengths & Weaknesses

Table 169. Global Key Players of LOW-E Glass Upstream (Raw Materials)

Table 170. Global LOW-E Glass Typical Customers

Table 171. LOW-E Glass Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. LOW-E Glass Picture
- Figure 2. World LOW-E Glass Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World LOW-E Glass Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World LOW-E Glass Production (2021-2032) & (K Sq.m)
- Figure 5. World LOW-E Glass Average Price (2021-2032) & (USD/Sq.m)
- Figure 6. World LOW-E Glass Production Value Market Share by Region (2021-2032)
- Figure 7. World LOW-E Glass Production Market Share by Region (2021-2032)
- Figure 8. North America LOW-E Glass Production (2021-2032) & (K Sq.m)
- Figure 9. Europe LOW-E Glass Production (2021-2032) & (K Sq.m)
- Figure 10. Southeast Asia LOW-E Glass Production (2021-2032) & (K Sq.m)
- Figure 11. South America LOW-E Glass Production (2021-2032) & (K Sq.m)
- Figure 12. Japan LOW-E Glass Production (2021-2032) & (K Sq.m)
- Figure 13. China LOW-E Glass Production (2021-2032) & (K Sq.m)
- Figure 14. China Taiwan LOW-E Glass Production (2021-2032) & (K Sq.m)
- Figure 15. India LOW-E Glass Production (2021-2032) & (K Sq.m)
- Figure 16. LOW-E Glass Market Drivers
- Figure 17. Factors Affecting Demand
- Figure 18. World LOW-E Glass Consumption (2021-2032) & (K Sq.m)
- Figure 19. World LOW-E Glass Consumption Market Share by Region (2021-2032)
- Figure 20. United States LOW-E Glass Consumption (2021-2032) & (K Sq.m)
- Figure 21. China LOW-E Glass Consumption (2021-2032) & (K Sq.m)
- Figure 22. Europe LOW-E Glass Consumption (2021-2032) & (K Sq.m)
- Figure 23. Japan LOW-E Glass Consumption (2021-2032) & (K Sq.m)
- Figure 24. South Korea LOW-E Glass Consumption (2021-2032) & (K Sq.m)
- Figure 25. ASEAN LOW-E Glass Consumption (2021-2032) & (K Sq.m)
- Figure 26. India LOW-E Glass Consumption (2021-2032) & (K Sq.m)
- Figure 27. Producer Shipments of LOW-E Glass by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 28. Global Four-firm Concentration Ratios (CR4) for LOW-E Glass Markets in 2025
- Figure 29. Global Four-firm Concentration Ratios (CR8) for LOW-E Glass Markets in 2025
- Figure 30. United States VS China: LOW-E Glass Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: LOW-E Glass Production Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States VS China: LOW-E Glass Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 33. United States Based Manufacturers LOW-E Glass Production Market Share 2025

Figure 34. China Based Manufacturers LOW-E Glass Production Market Share 2025

Figure 35. Rest of World Based Manufacturers LOW-E Glass Production Market Share 2025

Figure 36. World LOW-E Glass Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 37. World LOW-E Glass Production Value Market Share by Type in 2025

Figure 38. Single LOW-E Glass

Figure 39. Double LOW-E Glass

Figure 40. Triple LOW-E Glass

Figure 41. World LOW-E Glass Production Market Share by Type (2021-2032)

Figure 42. World LOW-E Glass Production Value Market Share by Type (2021-2032)

Figure 43. World LOW-E Glass Average Price by Type (2021-2032) & (USD/Sq.m)

Figure 44. World LOW-E Glass Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 45. World LOW-E Glass Production Value Market Share by Application in 2025

Figure 46. Residential

Figure 47. Commercial

Figure 48. Others

Figure 49. World LOW-E Glass Production Market Share by Application (2021-2032)

Figure 50. World LOW-E Glass Production Value Market Share by Application (2021-2032)

Figure 51. World LOW-E Glass Average Price by Application (2021-2032) & (USD/Sq.m)

Figure 52. LOW-E Glass Industry Chain

Figure 53. LOW-E Glass Procurement Model

Figure 54. LOW-E Glass Sales Model

Figure 55. LOW-E Glass Sales Channels, Direct Sales, and Distribution

Figure 56. Methodology

Figure 57. Research Process and Data Source

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