

Global Energy Efficient Glass Market Size Study & Forecast, by Application, Glassing Type, Performance, Installation, Frame Material, and Regional Forecasts 2025–2035

<https://marketpublishers.com/r/GFB010300555EN.html>

Date: July 2025

Pages: 285

Price: US\$ 3,750.00 (Single User License)

ID: GFB010300555EN

Abstracts

The Global Energy Efficient Glass Market is valued approximately at USD 66.43 billion in 2024 and is anticipated to grow with a remarkable CAGR of more than 9.28% over the forecast period 2025–2035. As energy conservation steadily becomes a global imperative and sustainable architecture transforms from trend to necessity, energy efficient glass is emerging as a cornerstone in modern construction and industrial design. Designed to optimize indoor climate control while reducing reliance on artificial heating and cooling systems, energy efficient glass integrates advanced technologies such as low-emissivity coatings, thermal insulation layers, and solar control features. The growing pressure to minimize carbon footprints across commercial, residential, and industrial sectors is compelling architects, developers, and policymakers to prioritize such materials in both new developments and renovation projects.

The growth trajectory of this market is being shaped by a confluence of technological advancement, stringent energy codes, and rising environmental consciousness. Leading innovations such as electrochromic glazing and aerogel-infused panels are transforming the glass facade industry by enabling dynamic light and heat regulation. As smart cities multiply across continents and net-zero energy targets loom on the policy horizon, the deployment of high-performance glass solutions is no longer optional but essential. Furthermore, retrofitting aging buildings with energy-saving glass is proving to be a cost-efficient route for property owners to comply with green certifications, especially in energy-intensive zones. The synergy of energy efficiency goals with aesthetic architecture is not just enhancing buildings—it's revolutionizing them.

Regionally, North America continues to dominate the global market for energy efficient glass, buoyed by stringent green building standards such as LEED, strong investment in infrastructure modernization, and climate-sensitive construction regulations. Europe follows closely, driven by the European Green Deal and ongoing efforts to decarbonize the built environment. Meanwhile, the Asia Pacific region is positioned for the fastest growth, as rapid urbanization in countries like China, India, and Southeast Asia demands sustainable building solutions. In particular, rising residential and commercial construction coupled with favorable government subsidies and energy efficiency mandates is catalyzing adoption throughout this region. Latin America and the Middle East are also showing encouraging signs of growth, with increased awareness and investment in green infrastructure.

Major market player included in this report are:

Saint-Gobain S.A.

Nippon Sheet Glass Co., Ltd.

Guardian Industries

AGC Inc.

Asahi Glass Co.

Sisecam Group

PPG Industries, Inc.

Central Glass Co., Ltd.

Xinyi Glass Holdings Limited

CSG Holding Co., Ltd.

Schott AG

Vitro Architectural Glass

Cardinal Glass Industries

Euroglas GmbH

Fuyao Glass Industry Group Co., Ltd.

Global Energy Efficient Glass Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players.

The detailed segments and sub-segments of the market are explained below:

By Application:

Commercial Buildings

Residential Buildings

Industrial Facilities

Transportation

By Glassing Type:

Double Glassing

Triple Glassing

Vacuum Glassing

Electrochromic Glassing

Aerogel Glassing

By Performance:

Thermal Insulation

Solar Heat Gain

Light Transmission

Sound Insulation

By Installation:

New Construction

Retrofit

Curtain Wall

Skylight

By Frame Material:

Aluminum

Vinyl

Wood

Fiberglass

Composite

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL ENERGY EFFICIENT GLASS MARKET REPORT SCOPE & METHODOLOGY

- 1.1. Research Objective
- 1.2. Research Methodology
 - 1.2.1. Forecast Model
 - 1.2.2. Desk Research
 - 1.2.3. Top Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
 - 1.4.1. Market Definition
 - 1.4.2. Market Segmentation
- 1.5. Research Assumption
 - 1.5.1. Inclusion & Exclusion
 - 1.5.2. Limitations
 - 1.5.3. Years Considered for the Study

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. Key Findings

CHAPTER 3. GLOBAL ENERGY EFFICIENT GLASS MARKET FORCES ANALYSIS

- 3.1. Market Forces Shaping The Global Energy Efficient Glass Market (2024–2035)
- 3.2. Drivers
 - 3.2.1. Growing adoption of green building codes and energy-efficient certifications
 - 3.2.2. Rising demand for smart infrastructure and climate-responsive architecture
- 3.3. Restraints
 - 3.3.1. High initial cost associated with energy efficient glazing technologies
 - 3.3.2. Limited awareness and penetration in price-sensitive markets
- 3.4. Opportunities
 - 3.4.1. Rapid urbanization in emerging economies driving retrofitting projects
 - 3.4.2. Advancements in dynamic glazing technologies and smart coatings

CHAPTER 4. GLOBAL ENERGY EFFICIENT GLASS INDUSTRY ANALYSIS

- 4.1. Porter's 5 Forces Model
 - 4.1.1. Bargaining Power of Buyer
 - 4.1.2. Bargaining Power of Supplier
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Forecast Model (2024–2035)
- 4.3. PESTEL Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top Investment Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024–2025)
- 4.7. Global Pricing Analysis And Trends 2025
- 4.8. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL ENERGY EFFICIENT GLASS MARKET SIZE & FORECASTS BY APPLICATION 2025–2035

- 5.1. Market Overview
- 5.2. Global Energy Efficient Glass Market Performance - Potential Analysis (2025)
- 5.3. Commercial Buildings
 - 5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.3.2. Market Size Analysis, by Region, 2025–2035
- 5.4. Residential Buildings
 - 5.4.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.4.2. Market Size Analysis, by Region, 2025–2035
- 5.5. Industrial Facilities
 - 5.5.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.5.2. Market Size Analysis, by Region, 2025–2035
- 5.6. Transportation
 - 5.6.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.6.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 6. GLOBAL ENERGY EFFICIENT GLASS MARKET SIZE & FORECASTS BY GLASSING TYPE 2025–2035

- 6.1. Market Overview
- 6.2. Double Glassing
- 6.3. Triple Glassing
- 6.4. Vacuum Glassing
- 6.5. Electrochromic Glassing
- 6.6. Aerogel Glassing

CHAPTER 7. GLOBAL ENERGY EFFICIENT GLASS MARKET SIZE & FORECASTS BY PERFORMANCE 2025–2035

- 7.1. Market Overview
- 7.2. Thermal Insulation
- 7.3. Solar Heat Gain
- 7.4. Light Transmission
- 7.5. Sound Insulation

CHAPTER 8. GLOBAL ENERGY EFFICIENT GLASS MARKET SIZE & FORECASTS BY INSTALLATION 2025–2035

- 8.1. Market Overview
- 8.2. New Construction
- 8.3. Retrofit
- 8.4. Curtain Wall
- 8.5. Skylight

CHAPTER 9. GLOBAL ENERGY EFFICIENT GLASS MARKET SIZE & FORECASTS BY FRAME MATERIAL 2025–2035

- 9.1. Market Overview
- 9.2. Aluminum
- 9.3. Vinyl
- 9.4. Wood
- 9.5. Fiberglass
- 9.6. Composite

CHAPTER 10. GLOBAL ENERGY EFFICIENT GLASS MARKET SIZE & FORECASTS BY REGION 2025–2035

- 10.1. Regional Market Snapshot
- 10.2. Top Leading & Emerging Countries
- 10.3. North America Energy Efficient Glass Market
 - 10.3.1. U.S. Energy Efficient Glass Market
 - 10.3.1.1. Application Breakdown Size & Forecasts, 2025–2035
 - 10.3.1.2. Glassing Type Breakdown Size & Forecasts, 2025–2035
 - 10.3.2. Canada Energy Efficient Glass Market
 - 10.3.2.1. Application Breakdown Size & Forecasts, 2025–2035
 - 10.3.2.2. Glassing Type Breakdown Size & Forecasts, 2025–2035
- 10.4. Europe Energy Efficient Glass Market
 - 10.4.1. UK
 - 10.4.2. Germany
 - 10.4.3. France
 - 10.4.4. Spain
 - 10.4.5. Italy
 - 10.4.6. Rest of Europe
- 10.5. Asia Pacific Energy Efficient Glass Market
 - 10.5.1. China
 - 10.5.2. India
 - 10.5.3. Japan
 - 10.5.4. Australia
 - 10.5.5. South Korea
 - 10.5.6. Rest of Asia Pacific
- 10.6. Latin America Energy Efficient Glass Market
 - 10.6.1. Brazil
 - 10.6.2. Mexico
- 10.7. Middle East & Africa Energy Efficient Glass Market
 - 10.7.1. UAE
 - 10.7.2. Saudi Arabia
 - 10.7.3. South Africa
 - 10.7.4. Rest of Middle East & Africa

CHAPTER 11. COMPETITIVE INTELLIGENCE

- 11.1. Top Market Strategies
- 11.2. Saint-Gobain S.A.

Company Overview
Key Executives
Company Snapshot
Financial Performance (Subject to Data Availability)
Product/Services Port
Recent Development
Market Strategies
SWOT Analysis
11.3. AGC Inc.
11.4. Nippon Sheet Glass Co., Ltd.
11.5. Asahi Glass Co.
11.6. PPG Industries, Inc.
11.7. Guardian Industries
11.8. Xinyi Glass Holdings Limited
11.9. CSG Holding Co., Ltd.
11.10. Sisecam Group
11.11. Schott AG
11.12. Vitro Architectural Glass
11.13. Cardinal Glass Industries
11.14. Euroglas GmbH
11.15. Central Glass Co., Ltd.
11.16. Fuyao Glass Industry Group Co., Ltd.

List Of Tables

LIST OF TABLES

- Table 1. Global Energy Efficient Glass Market, Report Scope
- Table 2. Global Energy Efficient Glass Market Estimates & Forecasts By Region 2024–2035
- Table 3. Global Energy Efficient Glass Market Estimates & Forecasts By Application 2024–2035
- Table 4. Global Energy Efficient Glass Market Estimates & Forecasts By Glassing Type 2024–2035
- Table 5. Global Energy Efficient Glass Market Estimates & Forecasts By Performance 2024–2035
- Table 6. Global Energy Efficient Glass Market Estimates & Forecasts By Installation 2024–2035
- Table 7. Global Energy Efficient Glass Market Estimates & Forecasts By Frame Material 2024–2035
- Table 8. U.S. Market Estimates & Forecasts, 2024–2035
- Table 9. Canada Market Estimates & Forecasts, 2024–2035
- Table 10. UK Market Estimates & Forecasts, 2024–2035
- Table 11. Germany Market Estimates & Forecasts, 2024–2035
- Table 12. France Market Estimates & Forecasts, 2024–2035
- Table 13. Spain Market Estimates & Forecasts, 2024–2035
- Table 14. Italy Market Estimates & Forecasts, 2024–2035
- Table 15. Rest of Europe Market Estimates & Forecasts, 2024–2035
- Table 16. China Market Estimates & Forecasts, 2024–2035
- Table 17. India Market Estimates & Forecasts, 2024–2035
- Table 18. Japan Market Estimates & Forecasts, 2024–2035
- Table 19. Australia Market Estimates & Forecasts, 2024–2035
- Table 20. South Korea Market Estimates & Forecasts, 2024–2035
- Table 21. Brazil Market Estimates & Forecasts, 2024–2035
- Table 22. Mexico Market Estimates & Forecasts, 2024–2035
- Table 23. UAE Market Estimates & Forecasts, 2024–2035
- Table 24. Saudi Arabia Market Estimates & Forecasts, 2024–2035
- Table 25. South Africa Market Estimates & Forecasts, 2024–2035
- Table 26. Rest of Middle East & Africa Market Estimates & Forecasts, 2024–2035

List Of Figures

LIST OF FIGURES

- Figure 1. Global Energy Efficient Glass Market, Research Methodology
- Figure 2. Global Energy Efficient Glass Market, Market Estimation Techniques
- Figure 3. Global Market Size Estimates & Forecast Methods
- Figure 4. Global Energy Efficient Glass Market, Key Trends 2025
- Figure 5. Global Energy Efficient Glass Market, Growth Prospects 2024–2035
- Figure 6. Global Energy Efficient Glass Market, Porter's Five Forces Model
- Figure 7. Global Energy Efficient Glass Market, PESTEL Analysis
- Figure 8. Global Energy Efficient Glass Market, Value Chain Analysis
- Figure 9. Energy Efficient Glass Market By Application, 2025 & 2035
- Figure 10. Energy Efficient Glass Market By Glassing Type, 2025 & 2035
- Figure 11. Energy Efficient Glass Market By Performance, 2025 & 2035
- Figure 12. Energy Efficient Glass Market By Installation, 2025 & 2035
- Figure 13. Energy Efficient Glass Market By Frame Material, 2025 & 2035
- Figure 14. North America Energy Efficient Glass Market, 2025 & 2035
- Figure 15. Europe Energy Efficient Glass Market, 2025 & 2035
- Figure 16. Asia Pacific Energy Efficient Glass Market, 2025 & 2035
- Figure 17. Latin America Energy Efficient Glass Market, 2025 & 2035
- Figure 18. Middle East & Africa Energy Efficient Glass Market, 2025 & 2035
- Figure 19. Global Energy Efficient Glass Market, Company Market Share Analysis (2025)

I would like to order

Product name: Global Energy Efficient Glass Market Size Study & Forecast, by Application, Glassing Type, Performance, Installation, Frame Material, and Regional Forecasts 2025–2035

Product link: <https://marketpublishers.com/r/GFB010300555EN.html>

Price: US\$ 3,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GFB010300555EN.html>