

Glass Curtain Wall Market Size, Share, Trends and Forecast by System Type, End Use, and Region, 2025-2033

Market Report | 2025-09-01 | 148 pages | IMARC Group

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Report description:

The global glass curtain wall market size was valued at USD 61.3 Billion in 2024. Looking forward, IMARC Group estimates the market to reach USD 105.6 Billion by 2033, exhibiting a CAGR of 5.6% from 2025-2033. Asia Pacific currently dominates the market, holding a market share of over 37.6% in 2024. The market is experiencing robust growth, driven by escalating demand for energy-efficient buildings, rapid technological advancements in glass, expansion in the global construction sector, implementation of various government regulations, growing preference for aesthetic and naturally lit spaces, and innovations in installation and maintenance techniques.

The market is primarily driven by increasing demand for energy-efficient building solutions, influenced by stringent environmental regulations supporting sustainable construction practices. Rapid urbanization and expanding infrastructure development, particularly in emerging economies, further fuel market growth. For instance, according to the United Nations Population Fund, currently, over half of the global population resides in urban areas, a figure projected to reach approximately 5 billion by 2030. Moreover, advancements in architectural design trends emphasizing aesthetics and modernity enhance the adoption of glass curtain walls in commercial and residential projects. Additionally, innovations in construction technologies, such as unitized systems offering cost and time efficiency, contribute to market expansion. Growing awareness of climate control benefits and natural light optimization in buildings also boosts the demand for glass curtain walls.

The United States plays a pivotal role in the global glass curtain wall market, driven by robust commercial construction, increasing urbanization, and a strong focus on energy-efficient building solutions. For instance, as per industry reports, nearly 80% of the U.S. population resides in urban areas. Besides this, 90% of the residents in seven states, including California, Utah Nevada, Florida, New Jersey, Massachusetts, and Rhode Island, dwell in cities. These states typically feature sizable urban centers with populations exceeding 250,000. Furthermore, the country's stringent environmental regulations and emphasis on sustainable architecture have accelerated the adoption of glass curtain walls, particularly in high-rise buildings. Advancements in construction technologies and growing investments in infrastructure further support market expansion. Additionally, the U.S. architectural

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industry's preference for innovative, aesthetic designs continues to fuel demand. With ongoing urban development and sustainability trends, the United States remains a key contributor to the growth of the global market.

Glass Curtain Wall Market Trends:

Increasing Demand for Energy-efficient Buildings

The growing focus on energy efficiency and sustainability, which prioritizes energy-saving solutions in both renovation and new construction projects, is a key driver propelling the growth of the glass curtain wall market. The construction industry accounts for 37% of global energy-related CO₂ emissions, highlighting the urgent need for sustainable practices to mitigate climate change and limit global warming to 1.5 degrees Celsius. This need becomes even more critical as global construction activity is projected to increase by 42% by 2030. Top of Form Bottom of Form In accordance with this, the accelerating need for glass curtain walls, mainly because of their capability to foster natural light penetration while providing insulation attributes, is bolstering the market expansion. For instance, the launch of solar glass curtain walls, like Sunjoule by AGC Inc., which has the structure resembling ordinary laminated glass and can be deployed in a wide range of applications, such as railings, facades, walls, and skylights, without changing design, is changing the glass wall curtain market dynamics.

Implementation of Various Regulations

According to the glass curtain wall market research report, the rigorous implementation of various government guidelines and policies for energy utilization in buildings is bolstering the market expansion. For instance, the introduction of the Energy Conservation (Amendment) Bill in 2022, mandating the adoption of the Energy Conservation Building Code-Residential or Eco-Niwas Sahmita (ENS) in India, is supporting the glass wall curtain market demand. This bill is estimated to avoid between 135-178Mt CO₂ building emissions by 2030. Along with this, the growing commitment of the Government of India (GoI) to build 8 Million new affordable homes, boosting the need for efficient housing solutions that help reduce carbon dioxide emissions, is strengthening the market growth. Additionally, the widespread adoption of certification programs, like Leadership in Energy and Environmental Design (LEED) and Building Research Establishment Environmental Assessment Method (BREEAM) to incentivize the adoption of energy-efficient technologies, including glass curtain walls, is favoring the market growth.

Rapid technological advancements

Technological advancements in the glass industry have enhanced the functionality and versatility of glass curtain walls. Innovations such as low-emissivity (low-E) coatings, double and triple glazing, and dynamic or smart glass technologies are driving market growth by promoting energy efficiency, better thermal insulation, and superior acoustic properties. For instance, Guardian Glass unveiled two new products in its commercial range of double silver coated glass, SunGuard SNR 35 and SunGuard SNR 50 glasses. They provide several benefits and are lauded for their energy efficiency. SNR 35 offers a sharper, more reflective appearance with a reduced solar heat gain coefficient of 0.17, ensuring superior energy efficiency. Meanwhile, SNR 50 provides a neutral aesthetic and medium reflectivity, featuring a 48% visible light transmission and a solar heat gain coefficient of 0.25. These advancements enhance both the functional performance of glass curtain walls and the design versatility of modern buildings. These technological enhancements not only improve the functional attributes of glass curtain walls but also contribute to the aesthetic and design flexibility of buildings.

Glass Curtain Wall Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global glass curtain wall market, along with forecast at the global, regional, and country levels from 2025-2033. The market has been categorized based on system type and end use.

Analysis by System Type:

- [] Unitized

- [] Stick

Unitized stand as the largest component in 2024, holding around 65.3% of the market. It consists of large, pre-assembled panels that are fabricated and glazed in the factory and then shipped to the construction site for installation. Unitized glass curtain wall systems streamline the construction process and help in reducing on-site labor and installation time. Moreover, they are lauded for their ability to accommodate the high thermal and acoustic insulation requirements of modern buildings. Their modular nature allows for a high degree of quality control, as the majority of the assembly is completed in controlled factory conditions.

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Furthermore, unitized systems offer excellent durability and are adaptable to various architectural aesthetics.

Analysis by End Use:

- Commercial
- Public
- Residential

Commercial leads the market with around 73.8% of market share in 2024. This is attributed to the increasing construction of commercial buildings, such as office towers, shopping malls, hotels, and other business complexes, where glass curtain walls are extensively utilized for their aesthetic appeal and functional benefits. According to the IMARC Group report, the market for the commercial real estate industry is expected to reach US\$ 9.6 Trillion by 2032. In line with this, the increasing utilization of glass wall curtains to elevate a property's value and attract tenants is enhancing the market growth. Furthermore, the ongoing shift towards green and sustainable building practices in the commercial sector, driving the adoption of glass curtain walls, as they align with the goals of reducing energy consumption and minimizing environmental impact, is bolstering the market growth.

Regional Analysis:

- North America
 - o United States
 - o Canada
- Asia Pacific
 - o China
 - o Japan
 - o India
 - o South Korea
 - o Australia
 - o Indonesia
 - o Others
- Europe
 - o Germany
 - o France
 - o United Kingdom
 - o Italy
 - o Spain
 - o Russia
 - o Others
- Latin America
 - o Brazil
 - o Mexico
 - o Others
- Middle East and Africa

In 2024, Asia-Pacific accounted for the largest market share of over 37.6%. This region's glass curtain wall market is experiencing significant growth due to rapid urbanization, particularly in countries like India, China, and Japan. According to a UN report, by 2035, the urban population of India is projected to reach 675 Million, the second-largest globally after China. This surge in urban population, coupled with the post-pandemic recovery, is driving demand for modern and energy-efficient buildings. As more cities expand, the need for high-performance glass curtain walls, known for their aesthetic appeal and energy efficiency, is increasing. Technological advancements in glazing materials are also contributing to the market's growth, enhancing thermal insulation and soundproofing. Additionally, the region's focus on sustainable construction, including government initiatives for green buildings, further supports market demand. The rise of smart cities and eco-friendly infrastructures is fueling the adoption of glass facades, making the APAC region a key driver in the global glass curtain wall market.

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Key Regional Takeaways:

United States Glass Curtain Wall Market Analysis

In 2024, United States accounted for 70.50% of market share in North America. The glass curtain wall market in the United States is being significantly propelled by architectural innovation, urbanization, and the magnifying need for energy-saving building materials. A key factor contributing to this growth is the Infrastructure Investment and Jobs Act (IIJA), a USD 1.2 Trillion federal initiative that includes USD 550 Billion in new funding. The IIJA is fueling thousands of infrastructure projects across the country, creating a substantial increase in construction employment. This surge in construction activity, particularly in commercial and residential sectors, is amplifying the demand for modern, energy-efficient building materials like glass curtain walls. Additionally, the growing focus on sustainable construction practices, coupled with stringent environmental regulations such as LEED certification, is pushing developers to adopt high-performance glass facades. Technological advancements in glazing, such as low-emissivity (Low-E) coatings, offer improved thermal insulation, reducing energy consumption. These factors, alongside a strong preference for aesthetic and sustainable building designs, are expected to continue driving the U.S. glass curtain wall market. With ongoing infrastructure investments and a booming real estate sector, the market is poised for sustained growth in the coming years.

Europe Glass Curtain Wall Market Analysis

Europe's glass curtain wall market is propelled by rapid urbanization, with the European Union being one of the most urbanized regions globally. Approximately 75% of the EU's 447 Million inhabitants reside in urban areas, including cities, towns, and suburbs, which significantly contributes to the demand for modern, energy-efficient buildings. As cities expand and modernize, the need for advanced building materials, such as glass curtain walls, has surged. These facades not only provide aesthetic appeal but also meet the growing emphasis on sustainability and energy efficiency in building design. In response to this demand, companies like Guardian Glass have strengthened their presence in Europe. For example, in 2018, Guardian Glass launched its second float glass facility in Czeszochowa, Poland, to cater to the increasing need for exceptional-performance fabricated and coated glass products in Eastern Europe. This facility, equipped with a technologically advanced glass coater, supports Europe's focus on sustainable construction and energy-efficient glazing solutions, further driving the glass curtain wall market.

Latin America Glass Curtain Wall Market Analysis

In Latin America, the glass curtain wall market is growing due to urbanization and the demand for modern building materials. Brazil, with an urban population of 189,992,937 in 2023, a 0.78% increase from 2022, is driving this trend. As cities expand, there is a rising need for energy-efficient, aesthetically appealing buildings, pushing demand for glass curtain walls. Stricter environmental regulations and a focus on sustainable construction further fuel this growth. The region's ongoing urban development and investments in commercial and residential projects support the adoption of advanced glass facades, driving the market towards greater expansion.

Middle East and Africa Glass Curtain Wall Market Analysis

The glass curtain wall market in the Middle East is fueled by rapid urbanization, with more than 80% of the population living in urban areas. This high concentration of urban dwellers drives the demand for modern, energy-efficient buildings, including the adoption of glass curtain walls. The region's focus on sustainable construction, coupled with significant investments in commercial and residential developments, supports the growth of advanced glazing solutions. As cities expand and prioritize eco-friendly infrastructure, the demand for high-performance glass facades continues to rise, making the Middle East a key player in the global glass curtain wall market.

Competitive Landscape:

The global glass curtain wall market is characterized by intense competition among key players focusing on innovation, sustainability, and technological advancements. Prominent companies dominate the market by offering high-performance systems tailored to energy-efficient and aesthetically appealing building designs. The competitive landscape is further shaped by regional players catering to local construction requirements and cost efficiencies. Moreover, partnerships, mergers, and acquisitions are common strategies to expand market presence and enhance product portfolios. For instance, in December 2023, YKK AP Inc. announced strategic acquisition of YHS International Ltd., a Thailand-based glass curtain wall company. This

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acquisition will expand YKK AP's foothold in Asia Pacific and boosts its efforts to develop steady global supply chain. In addition, increasing demand for unitized systems and sustainable construction solutions drives innovation, while strict regulatory compliance on energy efficiency standards intensifies competition. Furthermore, as urbanization rises globally, market players continue to invest in research and development projects and advanced manufacturing capabilities to maintain a competitive edge.

The report provides a comprehensive analysis of the competitive landscape in the glass curtain wall market with detailed profiles of all major companies, including:

- [] AGC Inc.
- [] Apogee Enterprises Inc.
- [] AvicSanxin Co. Ltd
- [] Central Glass Co. Ltd.
- [] China Glass Holdings Limited
- [] Guardian Industries (Koch Industries Inc)
- [] Hansen Group Ltd.
- [] Kawneer
- [] Nippon Sheet Glass Co. Ltd
- [] Schott AG
- [] Vitro
- [] Xinyi Glass Holdings Limited

Key Questions Answered in This Report

1. What is glass curtain wall?
2. How big is the global glass curtain wall market?
3. What is the expected growth rate of the global glass curtain wall market during 2025-2033?
4. What are the key factors driving the global glass curtain wall market?
5. What is the leading segment of the global glass curtain wall market based on system type?
6. What is the leading segment of the global glass curtain wall market based on end use?
7. What are the key regions in the global glass curtain wall market?
8. Who are the key players/companies in the global glass curtain wall market?

Table of Contents:

- 1 Preface
- 2 Scope and Methodology
 - 2.1 Objectives of the Study
 - 2.2 Stakeholders
 - 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
 - 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
 - 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
 - 4.1 Overview
 - 4.2 Key Industry Trends

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5 Global Glass Curtain Wall Market

5.1 Market Overview

5.2 Market Performance

5.3 Impact of COVID-19

5.4 Market Forecast

6 Market Breakup by System Type

6.1 Unitized

6.1.1 Market Trends

6.1.2 Market Forecast

6.2 Stick

6.2.1 Market Trends

6.2.2 Market Forecast

7 Market Breakup by End Use

7.1 Commercial

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Public

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Residential

7.3.1 Market Trends

7.3.2 Market Forecast

8 Market Breakup by Region

8.1 North America

8.1.1 United States

8.1.1.1 Market Trends

8.1.1.2 Market Forecast

8.1.2 Canada

8.1.2.1 Market Trends

8.1.2.2 Market Forecast

8.2 Asia-Pacific

8.2.1 China

8.2.1.1 Market Trends

8.2.1.2 Market Forecast

8.2.2 Japan

8.2.2.1 Market Trends

8.2.2.2 Market Forecast

8.2.3 India

8.2.3.1 Market Trends

8.2.3.2 Market Forecast

8.2.4 South Korea

8.2.4.1 Market Trends

8.2.4.2 Market Forecast

8.2.5 Australia

8.2.5.1 Market Trends

8.2.5.2 Market Forecast

8.2.6 Indonesia

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- 8.2.6.1 Market Trends
- 8.2.6.2 Market Forecast
- 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
 - 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
 - 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
 - 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast
 - 8.4.2 Mexico
 - 8.4.2.1 Market Trends
 - 8.4.2.2 Market Forecast
 - 8.4.3 Others
 - 8.4.3.1 Market Trends
 - 8.4.3.2 Market Forecast
- 8.5 Middle East and Africa
 - 8.5.1 Market Trends
 - 8.5.2 Market Breakup by Country
 - 8.5.3 Market Forecast
- 9 SWOT Analysis
 - 9.1 Overview
 - 9.2 Strengths
 - 9.3 Weaknesses
 - 9.4 Opportunities
 - 9.5 Threats

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- 10 Value Chain Analysis
- 11 Porters Five Forces Analysis
 - 11.1 Overview
 - 11.2 Bargaining Power of Buyers
 - 11.3 Bargaining Power of Suppliers
 - 11.4 Degree of Competition
 - 11.5 Threat of New Entrants
 - 11.6 Threat of Substitutes
- 12 Price Analysis
- 13 Competitive Landscape
 - 13.1 Market Structure
 - 13.2 Key Players
 - 13.3 Profiles of Key Players
 - 13.3.1 AGC Inc.
 - 13.3.1.1 Company Overview
 - 13.3.1.2 Product Portfolio
 - 13.3.1.3 Financials
 - 13.3.1.4 SWOT Analysis
 - 13.3.2 Apogee Enterprises Inc.
 - 13.3.2.1 Company Overview
 - 13.3.2.2 Product Portfolio
 - 13.3.2.3 Financials
 - 13.3.2.4 SWOT Analysis
 - 13.3.3 AvicSanxin Co. Ltd
 - 13.3.3.1 Company Overview
 - 13.3.3.2 Product Portfolio
 - 13.3.4 Central Glass Co. Ltd.
 - 13.3.4.1 Company Overview
 - 13.3.4.2 Product Portfolio
 - 13.3.4.3 Financials
 - 13.3.5 China Glass Holdings Limited
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
 - 13.3.5.3 Financials
 - 13.3.6 Guardian Industries (Koch Industries Inc)
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
 - 13.3.6.3 SWOT Analysis
 - 13.3.7 Hansen Group Ltd.
 - 13.3.7.1 Company Overview
 - 13.3.7.2 Product Portfolio
 - 13.3.8 Kawneer
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio
 - 13.3.9 Nippon Sheet Glass Co. Ltd
 - 13.3.9.1 Company Overview
 - 13.3.9.2 Product Portfolio

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- 13.3.9.3 Financials
- 13.3.9.4 SWOT Analysis
- 13.3.10 Schott AG
 - 13.3.10.1 Company Overview
 - 13.3.10.2 Product Portfolio
 - 13.3.10.3 Financials
 - 13.3.10.4 SWOT Analysis
- 13.3.11 Vitro
 - 13.3.11.1 Company Overview
 - 13.3.11.2 Product Portfolio
- 13.3.12 Xinyi Glass Holdings Limited
 - 13.3.12.1 Company Overview
 - 13.3.12.2 Product Portfolio

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