

Saudi Arabia Glass Curtain Wall Market By System Type (Unitized, Stick), By End Use (Commercial, Public, Residential), By Region, Competition Forecast & Opportunities, 2020-2030F

Market Report | 2025-04-11 | 81 pages | TechSci Research

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Report description:

Glass Curtain Wall Market in Saudi Arabia was valued at USD 3.42 billion in 2024 and is projected to reach USD 5.24 billion by 2030, registering a robust compound annual growth rate (CAGR) of 7.2% during the forecast period. This growth is primarily driven by the rapid development of commercial and residential high-rise buildings, increased infrastructure investments, and a rising emphasis on energy-efficient construction.

Under the Vision 2030 initiative, Saudi Arabia is undergoing a major urban transformation focused on sustainability and modern architectural practices. Consequently, demand for contemporary building facades-particularly in key urban centers such as Riyadh, Jeddah, and NEOM-continues to surge. The preference for high-performance glass curtain wall systems is largely attributed to their aesthetic appeal, ability to reduce cooling costs, and enhanced energy efficiency. Technological innovations, including double-glazed units and smart glass solutions, are further advancing market growth by optimizing thermal performance and light control.

Key Market Drivers

Accelerated Urbanization and Population Growth

Saudi Arabia is experiencing a significant demographic shift, with the urban population expected to grow from 83% in 2020 to approximately 87% by 2030. The national population stood at 35.2 million in 2023 and continues to increase at an annual growth rate of 1.5%. This surge is fueling the demand for modern infrastructure, particularly in the residential and commercial sectors, where glass curtain walls are favored for their lightweight construction, natural light optimization, and visual appeal.

Major cities such as Riyadh-whose population exceeded 7.5 million in 2023-are expanding rapidly. This urban growth is accompanied by a construction boom, including over 300,000 housing units planned by 2025. Glass curtain walls align well with these expansion efforts, offering energy savings of up to 20% in well-designed structures. Moreover, the government's drive toward smart city development further supports the adoption of innovative facade technologies that deliver both functionality and

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contemporary aesthetics.

Key Market Challenges

High Initial Capital and Maintenance Expenditures

Despite their advantages, the adoption of glass curtain walls entails considerable initial investment due to the costs associated with premium glazing materials, structural support systems, and specialized installation techniques. Advanced features such as double-glazing, low-emissivity (Low-E) coatings, and photovoltaic (PV) glass further add to the expense.

Maintenance is another critical challenge, particularly given the Kingdom's harsh environmental conditions, including frequent sandstorms and high temperatures. These factors necessitate ongoing upkeep to prevent glass degradation, discoloration, and loss of thermal performance. Additionally, the requirement for specialized cleaning and maintenance tools increases long-term operational costs. Smaller-scale developers and project owners may be deterred by these financial considerations, especially in light of fluctuating raw material prices and global supply chain disruptions, which pose further cost-efficiency concerns.

Key Market Trends

Growing Adoption of Energy-Efficient and Smart Glass Technologies

In line with Saudi Arabia's sustainability goals under Vision 2030, there is a marked shift toward glass curtain wall systems that offer superior energy efficiency and environmental performance. Developers are increasingly implementing advanced glazing solutions-such as double-glazed units, Low-E coatings, and solar-control glass-to enhance thermal insulation while maximizing daylight penetration.

Smart glass technologies, including electrochromic and thermochromic variants, are gaining traction for their ability to automatically adjust transparency based on sunlight intensity, thereby improving energy management in high-rise structures. Government-led green building mandates and LEED certification initiatives are accelerating the transition to eco-friendly facade systems. Consequently, the market is witnessing strong investment in innovative curtain wall designs that contribute to reducing carbon emissions and lowering building operating costs.

Key Market Players

- AGC Inc.
- Asahi Glass Co., Ltd.
- Central Glass Co., Ltd.
- Guardian Industries Corp.
- Nippon Sheet Glass Co., Ltd.
- Saint-Gobain S.A.
- Vitro, S.A.B. de C.V.
- Xinyi Glass Holdings Limited

Report Scope:

In this report, the Saudi Arabia Glass Curtain Wall Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

-□Saudi Arabia Glass Curtain Wall Market, By System Type:

- o Unitized
- o Stick

-□Saudi Arabia Glass Curtain Wall Market, By End Use:

- o Commercial
- o Public
- o Residential

-□Saudi Arabia Glass Curtain Wall Market, By Region:

- o Riyadh
- o Makkah
- o Madinah
- o Jeddah
- o Tabuk

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- o Eastern Province
- o Rest of Saudi Arabia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Saudi Arabia Glass Curtain Wall Market.

Available Customizations:

Saudi Arabia Glass Curtain Wall Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

-□Detailed analysis and profiling of additional market players (up to five).

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