Energy Efficient Glass Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028
Segmented By Glazing (Triple Glazing, Double Glazing, Single Glazing), By Coating (Hard Coat, Soft Coat), By Industry Vertical (Building & Construction, Automotive, Solar Panel, Others), By Region, Competition

Market Report (3 business days) | 2023-10-03 | 173 pages | TechSci Research

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Report description:

Energy Efficient Glass Market is expected to grow at a fast CAGR during the forecast period.
Energy-efficient glass is a type of glass that is designed to minimize heat transfer between the interior and exterior of a building, resulting in improved thermal insulation and reduced energy consumption for heating and cooling. It typically has special coatings or features that help to block or reflect certain wavelengths of light, thereby reducing solar heat gain in the summer and heat loss in the winter. There are several types of energy-efficient glass available in the market, each with its features and benefits. Some common types include:
Low-E (low-emissivity) glass: This type of glass has a microscopically thin coating that reflects heat, reducing the amount of infrared and ultraviolet (UV) radiation that enters a building. This helps to keep the interior cool in the summer and warm in the winter, resulting in energy savings.
Insulated glass units (IGUs): IGUs consist of two or more glass panes separated by an air or gas-filled space, typically filled with argon or krypton gas. The gas acts as an insulator, reducing heat transfer through the glass and improving thermal performance.
Triple-glazed glass: Like IGUs, triple-glazed glass consists of three glass panes separated by air or gas-filled spaces. Triple-glazed glass provides even better thermal insulation compared to IGUs, making it highly energy-efficient.
Tinted or reflective glass: Tinted or reflective glass has a special coating that reduces the amount of solar radiation that passes through the glass, reducing heat gain in the interior. It is commonly used in hot climates to reduce cooling costs.
Electrochromic glass: Electrochromic glass is a type of smart glass that can change its tint or opacity in response to an electric

current. This allows for dynamic control of heat and light transmission, making it highly energy-efficient and adaptable to changing environmental conditions.

Energy-efficient glass is widely used in windows, doors, and skylights in residential, commercial, and industrial buildings to improve energy efficiency, reduce greenhouse gas emissions, and lower heating and cooling costs. It is an important component of green building design and sustainable architecture, helping to create more energy-efficient and eco-friendly buildings.

Expansion of Building And Construction Sector

The building and construction sector is increasingly recognizing the importance of sustainability and energy efficiency in modern construction practices, and this is driving the demand for energy efficient glass in the market. Energy efficient glass, also known as low-emissivity (low-E) glass, is designed to reduce heat transfer through windows and other glazed surfaces, helping to maintain comfortable indoor temperatures and reduce energy consumption for heating and cooling.

The growing demand for energy efficient glass in the building and construction sector can be attributed to several factors. First, there is a growing awareness of the need to reduce greenhouse gas emissions and combat climate change. Energy-efficient glasses can help buildings reduce their carbon footprint by reducing the need for artificial heating and cooling, thus lowering energy consumption and associated emissions.

Second, energy efficient glass can help improve the overall energy efficiency of buildings, which is becoming an important consideration for building owners and developers. Energy-efficient buildings can achieve lower operational costs by reducing energy consumption, which can lead to significant savings in the long run.

Third, stricter building codes and regulations related to energy efficiency are being implemented in many countries around the world. These regulations often require the use of energy efficient materials, including glass, in new construction and renovation projects. This is driving the demand for energy efficient glass as builders and architects seek to comply with these regulations and achieve higher energy performance ratings for their buildings.

Furthermore, advancements in glass technology have led to the development of innovative energy-efficient glass products that offer improved performance in terms of thermal insulation, solar control, and glare reduction. These technological advancements have expanded the range of options available for architects and builders, making energy efficient glass a viable and attractive choice for modern building designs.

Overall, the growing demand from the building and construction sector for energy efficient glass can be attributed to the increasing emphasis on sustainability, stricter building codes and regulations, and advancements in glass technology. This trend is expected to continue in the coming years as the construction industry continues to prioritize energy efficiency and sustainability in building design and construction practices.

Growing Prominence of Green Buildings Propels Energy Efficient Glass Market

The growing prominence of green buildings is indeed driving the market for energy efficient glass across the world. Green buildings, which are designed to be environmentally responsible and resource-efficient, place a strong emphasis on energy efficiency, including the use of energy-efficient glass in windows and facades. Energy-efficient glass, also known as high-performance or low-emissivity (Low-E) glass, is designed to minimize heat transfer and reduce energy consumption for heating, cooling, and lighting in buildings. Many countries and regions have implemented energy efficiency regulations and building codes that mandate the use of energy-efficient glass in new buildings or building renovations. These regulations aim to reduce greenhouse gas emissions, mitigate climate change, and lower energy consumption in the building sector.

Green building certifications, such as Leadership in Energy and Environmental Design (LEED), Building Research Establishment Environmental Assessment Method (BREEAM), and others, encourage and reward the use of energy-efficient materials, including glass, in building construction.

Many developers, architects, and building owners pursue green building certifications, which drives the demand for energy-efficient glass. Energy-efficient glass can significantly reduce the energy consumption of buildings by minimizing heat gain in hot climates and heat loss in cold climates, thereby lowering heating, cooling, and lighting costs. Building owners and operators are increasingly recognizing the long-term cost savings associated with energy-efficient glass, which incentivizes them to invest in such products. Energy-efficient glass can contribute to the environmental sustainability of buildings by reducing greenhouse gas emissions, decreasing the reliance on fossil fuels, and conserving natural resources. As environmental awareness and concerns continue to grow, the demand for energy-efficient glass is expected to increase.

In conclusion, the growing prominence of green buildings, along with energy efficiency regulations, green building certifications, energy cost savings, environmental sustainability, and technological advancements, are driving the demand for energy-efficient glass in the market. The increasing focus on sustainable and energy-efficient building practices is expected to further boost the energy-efficient glass market in the coming years.

Market Segmentation

Based on glazing, the market is segmented into triple glazing, double glazing, and single glazing. Based on coating, the market is segmented into hard coats and soft coats. Based on industry vertical, the market is segmented into building & construction, automotive, solar panels, and others. The market analysis also studies the regional segmentation to devise regional market segmentation, divided among North America, Europe, Asia-Pacific, South America, and Middle East & Africa.

Company Profiles

Key players in the global energy efficient glass market are Abrisa Technologies, AGC Glass Europe, Cardinal Glass Industries Inc., Central Glass Co. Ltd, guardian Glass LLC, Morley Glass & Glazing Ltd, Nippon Sheet Glass Co. Ltd, Saint-Gobain, Schott AG, and Ecam Group.

The energy efficient glass market is highly competitive, with companies constantly seeking to differentiate themselves through their expertise, and cost-effectiveness. As the demand for innovative products continues to grow, the energy efficient glass market is expected to expand further in the coming years.

Report Scope:

In this report, the global energy efficient glass market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

?□Energy Efficient Glass Market, By Glazing:
o□Hard Coat
o□Soft Coat
?□Energy Efficient Glass Market, By Coating:
o□Triple Glazing
o□Double Glazing
o□Single Glazing
?□Energy Efficient Glass Market, By Industry Vertical:
o□Building & Construction
o□Automotive
o□Solar Panel
o□Others
?□Energy Efficient Glass Market, By Region:
o□Asia-Pacific
?□China
?□Japan
?□India
?□Australia
?□South Korea
o□North America
?□United States
?□Canada
?□Mexico
o□Europe
?□United Kingdom
?□Germany
?□France
?□Spain

?Italy
oMiddle East & Africa
?Israel
?Turkey
?Saudi Arabia
?UAE
oSouth America
?Brazil
?Argentina
?Colombia
Competitive Landscape
Company Profiles: Detailed analysis of the major companies present in the Global Energy Efficient Glass Market.
Available Customizations:
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).

Table of Contents:

(Note: The companies list can be customized based on the client requirements.)

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