

Energy-efficient Glass - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

<https://marketpublishers.com/r/E34B24D13298EN.html>

Date: July 2024

Pages: 120

Price: US\$ 4,750.00 (Single User License)

ID: E34B24D13298EN

Abstracts

The Energy-efficient Glass Market size is estimated at USD 31.79 billion in 2024, and is expected to reach USD 41.32 billion by 2029, growing at a CAGR of greater than 5% during the forecast period (2024-2029).

Key Highlights

The market was affected negatively by the COVID-19 outbreak in 2020. However, with the resumption of operations in major end-user industries, it recovered significantly in 2021 and 2022. Furthermore, the market is projected to grow steadily in the forecast period owing to global growth in the construction sector.

Increasing applications in the building and construction sector and a growing concern about high carbon emissions are driving the market growth. A high price bar of energy-efficient glass is expected to hinder the growth of the market.

Development of highly energy-efficient glasses to open new opportunities for the market over the forecast period. The European region dominates the global market, with the largest consumption being registered in the United Kingdom, Germany, France, and other countries.

Energy-efficient Glass Market Trends

Growing Demand from the Building and Construction Sector

Energy-efficient glasses are incorporated with coatings (low-emissivity) to prevent the

passing of heat through the windows. This makes the windows thermally insulated and hence improves the energy efficiency of a home, thereby helping save money on heating bills.

In the building and construction sector, these glasses are used to improve energy efficiency. Windows, doors, conservatories, and roof lights can all benefit from the use of energy-efficient glasses by retaining the heat and thereby conserving energy.

Asia-Pacific and North America are the largest construction markets in the world. Furthermore, according to Oxford Economics, the global construction output is expected to grow by more than USD 4.2 trillion over the next 15 years, from USD 9.7 trillion in 2022 to USD 13.9 trillion in 2037, with China, the United States, and India accounting for 51% of all the construction work.

According to the National Bureau of Statistics of China, the value of construction output accounted for CNY 31.2 trillion (USD 4.5 trillion) in 2022, up from CNY 29.3 trillion (USD 4.2 trillion) in 2021. China is expected to spend nearly USD 13 trillion on buildings by 2030, thereby providing demand for energy-efficient glass over the period.

In North America, the United States has a major share in the construction industry. Besides the United States, Canada and Mexico contribute significantly to the construction sector investments. The annual value of residential construction in the United States was valued at USD 908 billion in 2022, an increase of 13% compared to USD 803 billion in 2021.

The French government's initiatives to develop the city for hosting the 2024 Olympics are likely to drive the market. For instance, the French government sanctioned approximately USD 3.3 billion for the construction of the Hermitage towers (two 320-meter-1050-foot towers), which are due to be completed by 2024. The essential infrastructure for the Olympic event requires building 4,500 new dwellings for local people, 100,000 square meters for business activities, and 20,000 new hotel rooms for tourists.

Growing construction activity coupled with increasing concern toward energy conservation is driving the market for energy-efficient glasses during the forecast period.

Europe Region to Dominate the Market

Europe is expected to dominate the global market for energy-efficient glass, owing to the growing construction industry in countries such as the United Kingdom, Germany, Italy, and France.

The largest producers of energy-efficient glasses are located in Europe. Some of the leading companies in the manufacture of energy-efficient glasses are Saint-Gobain, Nippon Sheet Glass Co., Ltd, AGC Glass Europe, and Morley Glass & Glazing Ltd, among others.

Low-emissivity glass is a type of energy-efficient glass designed to prevent heat from escaping through the windows. Low-E glass has an invisible coating, which dramatically reduces heat transfer and reflects interior heat into the room.

According to Eurostat, the European construction sector grew by 2.5% in 2022 due to new investments from the EU Recovery Fund. The major construction projects in 2022 accounted for non-residential construction (offices, hospitals, hotels, schools, and industrial buildings), accounting for 31.3% of total activity.

Germany has the largest construction industry in Europe. The German government has allocated around EUR 375 billion (~USD 409.17 billion) in construction activities in the coming years. In addition, it also revealed plans to build 250,000 to 400,000 housing units, making this project a great investment opportunity for the city, private developers, and public housing authorities, hence increasing the scope of the energy-efficient glass market.

Using energy-efficient glasses in windows or doors reduces the home's CO₂ output, making the carbon footprint smaller and more environmentally friendly.

Furthermore, the high-efficiency transparent glass used in solar panels helps in the generation of power from various new applications, such as solar windows, building glasses, cars sunroof, and other such structures. When a solar glass is transparent, the sunlight may pass through the medium and defeat the purpose of utilizing sunlight. However, this new solar panel technology is changing the way solar cells absorb light.

Building Integrated Photovoltaics (BIPV) systems, which are used in windows, are integrated within a building's envelope. This provides dual benefits: the clear solar glass serves as an energy-efficient window product for any building and also generates

electricity for on-site use or export to the grid.

According to the Statistical Review of World Energy report, Europe accounts for 22.5% of the world's installed solar power capacity in 2022, which accounted for 236.96 gigawatts, an increase of 19.8% compared to last year, with Germany, Italy, and Spain being the leading producers.

Thus, these factors above, coupled with government support, are contributing to the increasing demand for energy-efficient glasses and are expected to increase during the forecast period.

Energy-efficient Glass Industry Overview

The global energy-efficient glass market is partially fragmented, with the major players holding a marginal portion. Some of the major companies (not in any particular order) in the market are Saint-Gobain, Nippon Sheet Glass Co. Ltd, AGC Glass Europe, Morley Glass & Glazing Ltd, and Cardinal Glass Industries Inc.

Additional Benefits:

The market estimate (ME) sheet in Excel format

3 months of analyst support

Contents

1 INTRODUCTION

- 1.1 Study Assumptions
- 1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET DYNAMICS

- 4.1 Drivers
 - 4.1.1 Increasing Application in the Building and Construction Sector
 - 4.1.2 Growing Concern about High Carbon Emissions
 - 4.1.3 Other Drivers
- 4.2 Restraints
 - 4.2.1 High Price Bar of Energy-efficient Glass
 - 4.2.2 Other Restraints
- 4.3 Industry Value Chain Analysis
- 4.4 Porter's Five Forces Analysis
 - 4.4.1 Bargaining Power of Suppliers
 - 4.4.2 Bargaining Power of Buyers
 - 4.4.3 Threat of New Entrants
 - 4.4.4 Threat of Substitute Products and Services
 - 4.4.5 Degree of Competition

5 MARKET SEGMENTATION (MARKET SIZE IN VALUE)

- 5.1 Coating Type
 - 5.1.1 Hard
 - 5.1.2 Soft
- 5.2 Glazing Type
 - 5.2.1 Single
 - 5.2.2 Double
 - 5.2.3 Triple
- 5.3 End-user Industry
 - 5.3.1 Building and Construction

5.3.2 Automotive

5.3.3 Solar Panel

5.3.4 Other End-user Industries (Industrial, etc.)

5.4 Geography

5.4.1 Asia-Pacific

5.4.1.1 China

5.4.1.2 India

5.4.1.3 Japan

5.4.1.4 South Korea

5.4.1.5 Rest of Asia-Pacific

5.4.2 North America

5.4.2.1 United States

5.4.2.2 Canada

5.4.2.3 Mexico

5.4.3 Europe

5.4.3.1 Germany

5.4.3.2 United Kingdom

5.4.3.3 France

5.4.3.4 Italy

5.4.3.5 Rest of Europe

5.4.4 South America

5.4.4.1 Brazil

5.4.4.2 Argentina

5.4.4.3 Rest of South America

5.4.5 Middle East and Africa

5.4.5.1 Saudi Arabia

5.4.5.2 South Africa

5.4.5.3 Rest of Middle East and Africa

6 COMPETITIVE LANDSCAPE

6.1 Mergers and Acquisitions, Joint Ventures, Collaborations, and Agreements

6.2 Market Share/Ranking Analysis**

6.3 Strategies Adopted by Leading Players

6.4 Company Profiles

6.4.1 Abrisa Technologies

6.4.2 AGC Glass Europe

6.4.3 Cardinal Glass Industries Inc.

6.4.4 Central Glass Co. Ltd

6.4.5 Guardian Industries Holdings

6.4.6 Morley Glass & Glazing Ltd

6.4.7 Nippon Sheet Glass Co. Ltd

6.4.8 Saint-Gobain

6.4.9 SCHOTT AG

6.4.10 ?i?ecam

6.4.11 Tuffx Glass

6.4.12 Vitro

7 MARKET OPPORTUNITIES AND FUTURE TRENDS

7.1 Development of Highly Energy-efficient Glasses

7.2 Other Opportunities

I would like to order

Product name: Energy-efficient Glass - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

Product link: <https://marketpublishers.com/r/E34B24D13298EN.html>

Price: US\$ 4,750.00 (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/E34B24D13298EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

