

Energy Efficient Buildings Market Size, Share & Trends Analysis Report By Material (Fiberglass, Mineral Wool, Cellulose), By End Use (Residential, Commercial), By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Energy Efficient Buildings Market Trends

The global energy efficient buildings market size was estimated at USD 28.40 billion in 2023 and is projected to grow at a CAGR of 11.1% from 2024 to 2030. The market growth is attributed to the rising implementation of strict building codes and energy efficiency standards to reduce carbon footprints and promote sustainable development. Governments around the world also offer incentives such as tax benefits, subsidies, and grants.

Increasing energy prices motivate building owners and developers to invest in energy-efficient technologies to reduce operational costs and enhance long-term savings. Programs such as LEED (Leadership in Energy and Environmental Design) and BREEAM (Building Research Establishment Environmental Assessment Method) incentivize the adoption of energy-efficient practices by providing recognition and certification for sustainable buildings therefore leading to the growth of the market.

Increasing energy prices motivate building owners and developers to invest in energy-efficient technologies to reduce operational costs and enhance long-term savings. For instance, rigid foam boards, cellulose and spray foam reduce heat transfer between building envelopes. This leads to low cooling and heating loads on

the buildings.

Energy-efficient buildings use fiberglass, mineral wool, cellulose, polyisocyanurate (PIR), extruded polystyrene, expanded polystyrene, and polyurethane (PUR). These products are available worldwide owing to the presence of a large number of suppliers. Furthermore, region-specific raw materials are imported, which increases global reach. This trend is expected to continue over the next few years, which may lead to moderate bargaining power of suppliers.

The rapidly expanding construction industry is further driving demand and aiding the market's growth. The increasing focus on advanced architectural design across the construction sector is projected to create potential demand for innovative buildings over the forecast period. The economic development across rapidly developing countries, including China and India, is projected to accelerate the market's growth over the forecast period.

However, the fluctuating prices of raw materials such as cellulose, glass wool, and mineral wool adversely affect market growth. Industry participants have to pay high tariffs on gas and electricity, and these expenditures contribute more than 30% of overall production costs. Thus, the high costs of gas and electricity are one of the major challenges for this industry

Global Energy Efficient Buildings Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global energy efficient buildings market report based on material, end use, and region.

Material Outlook (Revenue, USD Million, 2018 - 2030)

Glass Wool

Mineral Wool

EPS

XPS

Cellulose

PIR

PUR

Other Materials

End Use Outlook (Revenue, USD Million, 2018 - 2030)

Residential

Commercial

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Central & South America

Brazil

Middle East & Africa

Saudi Arabia

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