

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

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Research Methodology
- 1.2. Research Scope & Assumption
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Secondary Sources & Third-Party Perspectives
 - 1.3.4. Primary Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook, 2023 (USD Million)
- 2.2. Segmental Outlook
- 2.3. Competitive Insights

CHAPTER 3. ENERGY EFFICIENT BUILDINGS MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Ancillary Outlook
 - 3.1.1. Insulation Market
- 3.2. Industry Value Chain Analysis
 - 3.2.1. Sales Channel Analysis
- 3.3. Regulatory Framework
 - 3.3.1. Analyst Perspective
- 3.4. Market Dynamics
 - 3.4.1. Market Driver Analysis
 - 3.4.2. Market Restraint Analysis
 - 3.4.3. Industry Challenges
- 3.5. Business Environmental Tools Analysis: Energy Efficient Buildings Market
 - 3.5.1. Porter's Five Forces Analysis
 - 3.5.1.1. Bargaining Power of Suppliers
 - 3.5.1.2. Bargaining Power of Buyers

- 3.5.1.3. Threat of Substitution
- 3.5.1.4. Threat of New Entrants
- 3.5.1.5. Competitive Rivalry
- 3.5.2. PESTLE Analysis, by SWOT
 - 3.5.2.1. Political Landscape
 - 3.5.2.2. Economic Landscape
 - 3.5.2.3. Social Landscape
 - 3.5.2.4. Technology Landscape
 - 3.5.2.5. Environmental Landscape
 - 3.5.2.6. Legal Landscape
- 3.5.3. Market Disruption Analysis

CHAPTER 4. ENERGY EFFICIENT BUILDINGS MARKET: MATERIAL ESTIMATES & TREND ANALYSIS

- 4.1. Key Takeaways
- 4.2. Material Movement Analysis & Market Share, 2023 & 2030
- 4.3. Global Energy Efficient Buildings Market By Material, 2018 - 2030 (USD Million)
- 4.4. Glass Wool
 - 4.4.1. Energy Efficient Buildings Market Estimates & Forecasts, by Glass Wool, 2018 - 2030 (USD Million)
- 4.5. Mineral Wool
 - 4.5.1. Energy Efficient Buildings Market Estimates & Forecasts, by Mineral Wool, 2018 - 2030 (USD Million)
- 4.6. EPS
 - 4.6.1. Energy Efficient Buildings Market Estimates & Forecasts, by EPS, 2018 - 2030 (USD Million)
- 4.7. XPS
 - 4.7.1. Energy Efficient Buildings Market Estimates & Forecasts, by XPS, 2018 - 2030 (USD Million)
- 4.8. Cellulose
 - 4.8.1. Energy Efficient Buildings Market Estimates & Forecasts, by Cellulose, 2018 - 2030 (USD Million)
- 4.9. PIR
 - 4.9.1. Energy Efficient Buildings Market Estimates & Forecasts, by PIR, 2018 - 2030 (USD Million)
- 4.10. PUR
 - 4.10.1. Energy Efficient Buildings Market Estimates & Forecasts, by PUR, 2018 - 2030 (USD Million)

4.11. Other Materials

4.11.1. Energy Efficient Buildings Market Estimates & Forecasts, by Other Materials, 2018 - 2030 (USD Million)

CHAPTER 5. ENERGY EFFICIENT BUILDINGS MARKET: END USE ESTIMATES & TREND ANALYSIS

5.1. Key Takeaways

5.2. End Use Movement Analysis & Market Share, 2023 & 2030

5.3. Global Energy Efficient Buildings Market By End Use, 2018 - 2030 (USD Million)

5.4. Residential

5.4.1. Energy Efficient Buildings Market Estimates & Forecasts, by Residential, 2018 - 2030 (USD Million)

5.5. Commercial

5.5.1. Energy Efficient Buildings Market Estimates & Forecasts, by Commercial, 2018 - 2030 (USD Million)

CHAPTER 6. ENERGY EFFICIENT BUILDINGS MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

6.1. Key Takeaways

6.2. Regional Market Share Analysis, 2023 & 2030

6.3. North America

6.3.1. North America Energy Efficient Buildings Market Estimates and Forecasts, 2018 - 2030 (USD Million)

6.3.2. North America Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.3.3. North America Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.3.4. U.S.

6.3.4.1. U.S. Energy Efficient Buildings market estimates & forecasts, 2018 - 2030 (USD Million)

6.3.4.2. U.S. Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.3.4.3. U.S. Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.3.5. Canada

6.3.5.1. Canada Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.3.5.2. Canada Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.3.5.3. Canada Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.3.6. Mexico

6.3.6.1. Mexico Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.3.6.2. Mexico Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.3.6.3. Mexico Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.4. Europe

6.4.1. Europe Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.4.2. Europe Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.4.3. Europe Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.4.4. Germany

6.4.4.1. Germany Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.4.4.2. Germany Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.4.4.3. Germany Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.4.5. UK

6.4.5.1. UK Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.4.5.2. UK Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.4.5.3. UK Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.4.6. France

6.4.6.1. France Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.4.6.2. France Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.4.6.3. France Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.4.7. Italy

6.4.7.1. Italy Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.4.7.2. Italy Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.4.7.3. Italy Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.4.8. Spain

6.4.8.1. Spain Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.4.8.2. Spain Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.4.8.3. Spain Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.5. Asia Pacific

6.5.1. Asia Pacific Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.5.2. Asia Pacific Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.5.3. Asia Pacific Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.5.4. China

6.5.4.1. China Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.5.4.2. China Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.5.4.3. China Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.5.5. India

6.5.5.1. India Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.5.5.2. India Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.5.5.3. India Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.5.6. Japan

6.5.6.1. Japan Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.5.6.2. Japan Energy Efficient Buildings Market Estimates & Forecasts, By Material,

2018 - 2030 (USD Million)

6.5.6.3. Japan Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.5.7. South Korea

6.5.7.1. South Korea Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.5.7.2. South Korea Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.5.7.3. South Korea Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.6. Central & South America

6.6.1. Central & South America Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.6.2. Central & South America Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.6.3. Central & South America Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.6.4. Brazil

6.6.4.1. Brazil Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.6.4.2. Brazil Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.6.4.3. Brazil Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.7. Middle East & Africa

6.7.1. Middle East & Africa Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.7.2. Middle East & Africa Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.7.3. Middle East & Africa Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

6.7.4. Saudi Arabia

6.7.4.1. Saudi Arabia Energy Efficient Buildings Market Estimates & Forecasts, 2018 - 2030 (USD Million)

6.7.4.2. Saudi Arabia Energy Efficient Buildings Market Estimates & Forecasts, By Material, 2018 - 2030 (USD Million)

6.7.4.3. Saudi Arabia Energy Efficient Buildings Market Estimates & Forecasts, By End Use, 2018 - 2030 (USD Million)

CHAPTER 7. COMPETITIVE LANDSCAPE

7.1. Recent Developments & Impact Analysis, By Key Market Participants

7.2. Key Company/Competition Categorization

7.3. Company Market Position Analysis

7.4. Company Heat Map Analysis

7.5. Company Listing

7.5.1. Saint-Gobain S.A.

7.5.1.1. Company Overview

7.5.1.2. Financial Performance

7.5.1.3. Product Benchmarking

7.5.1.4. Strategic Initiatives

7.5.2. Owens Corning

7.5.2.1. Company Overview

7.5.2.2. Financial Performance

7.5.2.3. Product Benchmarking

7.5.2.4. Strategic Initiatives

7.5.3. GAF Materials Corporation

7.5.3.1. Company Overview

7.5.3.2. Financial Performance

7.5.3.3. Product Benchmarking

7.5.3.4. Strategic Initiatives

7.5.4. Johns Manville

7.5.4.1. Company Overview

7.5.4.2. Financial Performance

7.5.4.3. Product Benchmarking

7.5.4.4. Strategic Initiatives

7.5.5. BASF SE

7.5.5.1. Company Overview

7.5.5.2. Financial Performance

7.5.5.3. Product Benchmarking

7.5.5.4. Strategic Initiatives

7.5.6. Kingspan Group

7.5.6.1. Company Overview

7.5.6.2. Financial Performance

7.5.6.3. Product Benchmarking

7.5.6.4. Strategic Initiatives

7.5.7. Covestro AG

7.5.7.1. Company Overview

- 7.5.7.2. Financial Performance
- 7.5.7.3. Product Benchmarking
- 7.5.7.4. Strategic Initiatives
- 7.5.8. Dow Inc.
 - 7.5.8.1. Company Overview
 - 7.5.8.2. Financial Performance
 - 7.5.8.3. Product Benchmarking
 - 7.5.8.4. Strategic Initiatives
- 7.5.9. Huntsman Corporation
 - 7.5.9.1. Company Overview
 - 7.5.9.2. Financial Performance
 - 7.5.9.3. Product Benchmarking
 - 7.5.9.4. Strategic Initiatives
- 7.5.10. Rockwool International A/S
 - 7.5.10.1. Company Overview
 - 7.5.10.2. Financial Performance
 - 7.5.10.3. Product Benchmarking
 - 7.5.10.4. Strategic Initiatives
- 7.5.11. Fletcher Building
 - 7.5.11.1. Company Overview
 - 7.5.11.2. Financial Performance
 - 7.5.11.3. Product Benchmarking
 - 7.5.11.4. Strategic Initiatives
- 7.5.12. American Rockwool Manufacturing LLC
 - 7.5.12.1. Company Overview
 - 7.5.12.2. Financial Performance
 - 7.5.12.3. Product Benchmarking
 - 7.5.12.4. Strategic Initiatives

List Of Tables

LIST OF TABLES

Table 1 Energy efficient buildings Market Estimates & Forecasts by materials, 2018 - 2030 (USD Million)

Table 2 Energy Efficient Buildings market estimates and forecasts, by Glass Wool, 2018 - 2030 (USD Million)

Table 3 Energy Efficient Buildings market estimates and forecasts, by Mineral Wool, 2018 - 2030 (USD Million)

Table 4 Energy Efficient Buildings market estimates and forecasts, by Expanded polystyrene (EPS), 2018 - 2030 (USD Million)

Table 5 Energy Efficient Buildings market estimates and forecasts, by Extruded Polystyrene (XPS), 2018 - 2030 (USD Million)

Table 6 Energy Efficient Buildings market estimates and forecasts, by Cellulose, 2018 - 2030 (USD Million)

Table 7 Energy Efficient Buildings market estimates and forecasts, by Polyisocyanurate (PIR), 2018 - 2030 (USD Million)

Table 8 Energy Efficient Buildings market estimates and forecasts, by Polyurethane (PUR), 2018 - 2030 (USD Million)

Table 9 Energy Efficient Buildings market estimates and forecasts, by other materials, 2018 - 2030 (USD Million)

Table 10 Energy Efficient Buildings Market Estimates & Forecasts by End Use, 2018 - 2030 (USD Million)

Table 11 Energy Efficient Buildings market estimates and forecasts, by Residential, 2018 - 2030 (USD Million)

Table 12 Energy Efficient Buildings market estimates and forecasts, by Commercial, 2018 - 2030 (USD Million)

Table 13 Recent Developments & Impact Analysis, By Key Market Participants

Table 14 Company Heat Map Analysis, 2022

List Of Figures

LIST OF FIGURES

- Fig. 1 Information Procurement
- Fig. 2 Primary Research Patter
- Fig. 3 Primary Research Process
- Fig. 4 Market Research Approaches - Bottom-Up Approach
- Fig. 5 Market Research Approaches - Top-Down Approach
- Fig. 6 Market Research Approaches - Combined Approach
- Fig. 7 Self Compacting Concrete Market Segmentation
- Fig. 8 Market Outlook
- Fig. 9 Segmental Outlook
- Fig. 10 Segmental Outlook
- Fig. 11 Competitive Outlook
- Fig. 12 Market Value Chain Analysis
- Fig. 13 Market Dynamics
- Fig. 14 Market Driver Impact Analysis
- Fig. 15 Market Restraint Impact Analysis
- Fig. 16 Industry Analysis - PORTERS
- Fig. 17 Industry Analysis - PESTEL
- Fig. 18 Application: Key Takeaways
- Fig. 19 Type: Market Share, 2023 & 2030
- Fig. 20 End Use: Market Share, 2023 & 2030
- Fig. 21 Competition Categorization
- Fig. 22 Company Market Positioning
- Fig. 23 Strategy Mapping, 2023

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