

# **Energy-Efficient Lighting Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (High-Intensity Discharge Lamps (HID), Linear Fluorescent Lamps (LFL), Light Emitting Diodes (LED), Other Types), By Application (Residential, Commercial, Industrial, Outdoor, Other Applications), By End-User**

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## **Abstracts**

The Energy-Efficient Lighting Market is valued at USD 48.4 billion in 2025 and is projected to grow at a CAGR of 10.4% to reach USD 118.2 billion by 2034.

### **Market Overview: Energy-Efficient Lighting Market**

The energy-efficient lighting market has seen considerable growth over the last decade, driven by the global shift towards sustainability and energy conservation. Technologies like LED (Light Emitting Diode) and CFL (Compact Fluorescent Lamp) are replacing traditional incandescent and halogen bulbs, offering significant reductions in energy consumption. As governments and corporations strive to reduce their carbon footprints and meet sustainability targets, energy-efficient lighting systems have become a core element in building and infrastructure design. Additionally, the rise of smart lighting solutions, where lighting is controlled remotely and optimized based on usage patterns, has further spurred the market. With growing awareness about the environmental impact of energy consumption, the energy-efficient lighting market continues to thrive as businesses, municipalities, and consumers adopt greener alternatives to traditional lighting solutions. The market continued to experience steady growth as more industries focused on sustainability and energy efficiency to reduce operational costs. The demand for energy-efficient lighting solutions surged as governments worldwide introduced stricter regulations and policies to curb energy consumption and greenhouse

gas emissions. Technological advancements in LED lighting and the growing popularity of connected, smart lighting systems further fueled this growth. Cities and commercial buildings adopted energy-efficient lighting in the form of street lighting, office buildings, and public spaces, reducing both energy consumption and maintenance costs. Additionally, the integration of artificial intelligence (AI) and IoT with lighting systems enabled more precise control and energy management. This trend has led to the widespread adoption of automated and adaptive lighting systems, where lighting can be dynamically adjusted based on natural light levels and human activity. The energy-efficient lighting market is expected to see continued technological innovation and wider adoption across various sectors. The development of more advanced LED technologies, including organic LEDs (OLEDs) and the potential for quantum-dot technology, will further enhance energy efficiency and light quality. As smart cities continue to expand, the integration of energy-efficient lighting with IoT, smart grids, and building management systems will become more prevalent, allowing for real-time monitoring and adaptive lighting solutions. The increasing emphasis on renewable energy sources and the need for buildings to operate in a net-zero energy environment will drive demand for lighting systems that are both energy-efficient and integrated into broader energy management frameworks. As governments continue to implement stricter energy efficiency standards, the market for energy-efficient lighting solutions will experience sustained demand, particularly in residential and commercial applications.

## Key Insights Energy-Efficient Lighting Market

**Smart and Connected Lighting Solutions:** The growing trend of IoT-enabled smart lighting allows for better control, remote operation, and energy management. These systems can adapt based on real-time data, such as occupancy or natural light levels, optimizing energy consumption in residential, commercial, and industrial spaces.

**Integration of LED and OLED Technology:** LED technology continues to dominate the market, but OLED and emerging technologies such as quantum dots are gaining traction. These new technologies offer improved color quality, better efficiency, and broader applications, pushing the boundaries of energy-efficient lighting solutions.

**Government Regulations and Policies:** Increasingly stringent energy efficiency regulations and sustainability targets are encouraging the adoption of energy-efficient lighting. Governments are incentivizing the shift toward energy-saving

products through tax credits, subsidies, and mandates that require energy-efficient lighting in both new and existing infrastructure.

**Growth in the Smart Cities Initiative:** As urbanization accelerates, cities are adopting smart lighting solutions to improve energy efficiency, reduce costs, and enhance the overall urban environment. These technologies not only reduce energy use but also improve public safety and enhance the aesthetic appeal of urban landscapes.

**Energy-Efficient Lighting for Sustainability and Green Building Certifications:** As sustainable architecture and green building standards such as LEED become more widespread, energy-efficient lighting solutions are becoming a key component in meeting certification criteria. These systems contribute significantly to reducing the environmental impact of buildings and are increasingly demanded by environmentally-conscious consumers.

**Cost Savings through Reduced Energy Consumption:** Energy-efficient lighting solutions, especially LEDs, consume significantly less power compared to traditional incandescent bulbs. This reduction in energy use leads to lower electricity bills, making them a highly attractive option for both residential and commercial consumers.

**Government Incentives and Environmental Regulations:** Global governments are increasingly offering incentives, tax breaks, and regulatory policies to encourage the adoption of energy-efficient lighting. These efforts, combined with pressure to reduce carbon emissions, are driving widespread market growth.

**Technological Advancements in Lighting:** Continuous innovations in LED and smart lighting technologies have led to increased efficiency, longer lifespans, and better lighting quality. These advancements make energy-efficient lighting more attractive to consumers, particularly as the cost of installation continues to decrease.

**Consumer and Corporate Sustainability Initiatives:** As environmental concerns grow, consumers and businesses are prioritizing sustainability. Companies and municipalities are increasingly adopting energy-efficient lighting as part of their broader environmental sustainability goals, driving further market adoption.

**High Initial Investment and Upfront Costs:** Despite long-term cost savings, the

initial investment required for energy-efficient lighting systems can be a challenge, especially for smaller businesses or individuals. The high cost of transitioning to energy-efficient options, including installation and retrofitting, can delay adoption in certain markets.

## Energy-Efficient Lighting Market Segmentation

### By Type

High-Intensity Discharge Lamps (HID)

Linear Fluorescent Lamps (LFL)

Light Emitting Diodes (LED)

Other Types

### By Application

Residential

Commercial

Industrial

Outdoor

Other Applications

### By End-User

Government

Healthcare

Education

Retail

Hospitality

Other End-Users

### Key Companies Analysed

General Electric Company

Schneider Electric SE

ABB Group

Toshiba corporation

Philips Lighting

Eaton Corporation

Signify N.V.

OSRAM GmbH

Hubbell Lighting Inc.

Acuity Brands

Zumtobel Group AG

Seoul Semiconductor Co. Ltd.

Cree Inc.

Bajaj Electricals Ltd.

Leviton Manufacturing Co. Inc.

Dialight

Lumileds Holding B.V.

Cooper Lighting

The Lighting Quotient

Bridgelux Inc.

Soraa Inc.

Advanced Lighting Technologies Australia Inc.

Nichia Corporation

Savant Systems Inc.

## Energy-Efficient Lighting Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Energy-Efficient Lighting Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are

analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

North America — Energy-Efficient Lighting market data and outlook to 2034

United States

Canada

Mexico

Europe — Energy-Efficient Lighting market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Energy-Efficient Lighting market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Energy-Efficient Lighting market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Energy-Efficient Lighting market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

## Research Methodology

This study combines primary inputs from industry experts across the Energy-Efficient Lighting value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

## Key Questions Addressed

What is the current and forecast market size of the Energy-Efficient Lighting industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Energy-Efficient Lighting Market Report

Global Energy-Efficient Lighting market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Energy-

Efficient Lighting trade, costs, and supply chains

Energy-Efficient Lighting market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Energy-Efficient Lighting market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Energy-Efficient Lighting market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Energy-Efficient Lighting supply chain analysis

Energy-Efficient Lighting trade analysis, Energy-Efficient Lighting market price analysis, and Energy-Efficient Lighting supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Energy-Efficient Lighting market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

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