

# Energy Efficient Lighting Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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## Abstracts

The Global Energy Efficient Lighting Market was valued at USD 44.5 billion in 2024 and is estimated to grow at a CAGR of 5.2% to reach USD 72.8 billion by 2034. This growth is fueled by the rising global push for sustainability and net-zero carbon targets, which is prompting large-scale adoption of energy-saving lighting technologies. With lighting accounting for 15–20% of total global electricity consumption, improving efficiency in this sector offers measurable reductions in energy use and emissions. Governments, businesses, and consumers alike are recognizing the value of energy-efficient solutions, positioning the market for strong, consistent growth in the years ahead.

A significant trend shaping the market is the integration of lighting systems with Internet of Things (IoT) technologies. These smart lighting systems are increasingly embedded with sensors that support dynamic dimming, real-time usage monitoring, and predictive maintenance, aligning with broader smart building and smart city initiatives. Another evolving preference is for circadian and human-centric lighting designs that automatically adjust brightness and color temperature to complement natural human rhythms. These tunable solutions are being incorporated in both residential and commercial spaces to enhance wellness, improve concentration, and support mental health—marking a shift where lighting plays a larger role in lifestyle and comfort.

The LED segment generated USD 19.1 billion in 2024, driven by LED lighting's strong energy performance, extended operational life, and declining costs. The push toward replacing older, inefficient lighting systems is accelerating as construction activity increases across commercial and residential spaces. Regulatory policies phasing out legacy lighting technologies are also boosting LED adoption. The segment is expected to see faster growth due to a combination of falling LED component prices and rising

demand from smart homes and smart city infrastructure projects worldwide.

The commercial segment was valued at USD 21.2 billion in 2024 and is estimated to grow at a CAGR of 5.6% through 2034. Offices, healthcare facilities, retail outlets, and hospitality spaces are turning to intelligent lighting systems to improve operational efficiency and reduce energy expenses. Smart lighting implementation in commercial properties, particularly in North America and Europe, has gained traction as facility managers and property owners seek automation-driven solutions for energy savings and sustainability compliance.

U.S. Energy Efficient Lighting Market was valued at USD 8.95 billion in 2024. Market expansion in the country is backed by stringent efficiency mandates and growing deployment of smart LED technologies in public and private commercial buildings. Federal and regional programs continue to play a key role in promoting retrofitting, green certifications, and cost-saving energy upgrades, making the U.S. a leading adopter of advanced lighting solutions.

Key companies shaping the competitive landscape of the Global Energy Efficient Lighting Market include Eaton Corporation, Schneider Electric SE, OSRAM Licht AG (ams OSRAM), Signify N.V., and Acuity Brands, Inc. Leading companies in the Energy Efficient Lighting Market are deploying multifaceted strategies to expand their market reach. Core tactics include developing advanced IoT-enabled smart lighting systems and offering integrated energy management platforms that combine lighting with HVAC and security. Firms are investing in R&D to deliver tunable and human-centric lighting that supports wellness and sustainability goals. Expansion into emerging economies and partnerships with construction and automation firms are helping to scale deployment across urban infrastructure and industrial zones.

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