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Energy Efficient Lamps and Ballasts Market Forecasts to 2030 – Global Analysis By Lamp Type (LED (Light Emitting Diode), CFL (Compact Fluorescent Lamp), Fluorescent Lamps, HID (High-Intensity Discharge) Lamps and Other Lamp Types), Ballast Type, Application, and By Geography

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Abstracts

According to Stratistics MRC, the Global Energy Efficient Lamps and Ballasts Market is accounted for $4.7 billion in 2024 and is expected to reach $9.0 billion by 2030 growing at a CAGR of 11.3% during the forecast period. Energy efficient lamps, including LEDs, CFLs, and HID lamps, provide effective illumination with significantly reduced energy consumption compared to traditional incandescent bulbs. These lamps offer longer life spans, produce less heat, and come in various colour temperatures and brightness levels. Ballasts, particularly electronic ones, regulate current flow to fluorescent and HID lamps, optimizing their performance and reducing energy losses. The combination of energy efficient lamps and ballasts leads to lower electricity bills, decreased greenhouse gas emissions, and minimized environmental impact.

According to the Energy Saving Trust, British households can save up to $250 each year by switching to energy efficient LED lighting which saves them between $15 and $18 per light bulb

Market Dynamics:

Driver:

Increasing awareness of energy conservation

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Consumers and businesses are increasingly recognizing the environmental and economic benefits of reducing energy consumption. This heightened awareness is leading to a greater adoption of energy-efficient lighting solutions. Government campaigns and regulations that promote energy-saving practices further support this trend. As a result, the demand for energy-efficient lighting technologies is on the rise, contributing to market growth.

Restraint:

Vulnerability in traffic and ethical dilemmas

The installation and maintenance of smart lighting systems in high-traffic areas can be challenging and costly. Additionally, ethical concerns related to the disposal and recycling of energy-efficient lighting components pose environmental challenges. These factors can hinder the widespread adoption of energy-efficient lighting solutions. Overcoming these issues requires addressing both logistical and ethical considerations in the industry.

Opportunity:

Increasing adoption of smart lighting solutions

Smart lighting systems, which incorporate advanced technologies such as IoT and automation, enhance energy efficiency and user convenience. These systems can be controlled remotely, allowing for optimized energy usage and cost savings. The growing trend of smart homes and smart cities further drives the demand for such innovative lighting solutions. As technology advances, the potential for smart lighting applications continues to expand propelling the market growth.

Threat:

Complexity of advanced lighting controls

Advanced lighting systems often require specialized knowledge for installation, configuration, and maintenance. The lack of skilled professionals in this field can impede the market growth. Additionally, the high initial costs associated with these complex systems can deter potential customers. Addressing these challenges requires investment in training programs and efforts to simplify the user interface of advanced

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lighting controls.

Covid-19 Impact

The pandemic led to disruptions in supply chains, affecting the production and distribution of lighting components. On the other hand, the increased focus on health and hygiene during the pandemic highlighted the importance of energy-efficient and sustainable lighting solutions. The shift towards remote work and online activities also drove the demand for efficient home lighting. Overall, the pandemic underscored the need for resilient and adaptable lighting solutions.

The LED (light emitting diode) segment is expected to be the largest during the forecast period

The LED (light emitting diode) segment is expected to account for the largest market share during the forecast period owing to lower energy consumption, longer lifespan, and improved light quality. These benefits make LEDs an attractive choice for various lighting applications, from residential to commercial and industrial settings. The continued advancements in LED technology further support their adoption. As a result, the LED segment is set to lead the market in the coming years.

The magnetic ballasts segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the magnetic ballasts segment is predicted to witness the highest growth rate due to their reliability and cost-effectiveness. They are widely used in applications where electronic ballasts may not be suitable. The growing demand for energy-efficient lighting solutions in developing regions also contributes to the segment's growth. As a result, magnetic ballasts are expected to see significant market expansion.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share attributed to the region's well-developed infrastructure, high technological readiness, and supportive regulatory environment contribute to its dominant position. North America's focus on energy conservation and sustainability further drives the adoption of energy-efficient lighting solutions. The presence of leading lighting manufacturers and research institutions also accelerates as a result; North America is

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poised to lead the market.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR owing to increasing disposable incomes in countries like China and India. Governments in the region are actively promoting energy conservation and sustainable practices, creating a favourable environment for the adoption of energy-efficient lighting technologies. Additionally, the strong manufacturing capabilities and technological advancements in the region support the development and production of energy-efficient lighting solutions.

Key players in the market

Some of the key players in Energy Efficient Lamps and Ballasts market include Acuity Brands, Albertson's Inc., Cooper Lighting, Crompton Greaves Consumer Electricals LTD, EnvirOasis, GE electronics, Halco Lighting Technologies, Havells, Johnson Controls, Inc., OSRAM, Panasonic Lighting, Parker Lighting, Inc., Philips Lighting, Samsung Electronics, Sony Corporation of America, Voss Lighting and Wal-Mart.

Key Developments:

In February 2025, Samsung Electronics announced a partnership with Kia Corporation that integrates SmartThings Pro, Samsung's B2B management solution, into Kia's Platform Beyond Vehicles (PBVs).

In February 2025, Samsung Electronics announced that the company has successfully completed the industry's first end-to-end Reduced Capability (RedCap) trial over a private 5G network with Hyundai Motor Company (Hyundai Motor), a global leader in smart mobility solutions.

In January 2025, Albertsons Media Collective, the retail media arm for Albertsons Companies, Inc. announced the launch of an API that will enable advertisers to integrate Albertsons Cos. campaign performance data into their own measurement models for analysis.

Lamp Types Covered:

LED (Light Emitting Diode)

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CFL (Compact Fluorescent Lamp)

Fluorescent Lamps

HID (High-Intensity Discharge) Lamps

Other Lamp Types

Ballast Types Covered:

Magnetic Ballasts

Electronic Ballasts

Hybrid Ballasts

Applications Covered:

Residential

Commercial

Industrial

Outdoor Lighting

Automotive

Other Applications

Regions Covered:

North America

US

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- Canada
- Mexico

Europe

- Germany
- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina

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Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

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SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Contents

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9 KEY DEVELOPMENTS

10 COMPANY PROFILING

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List Of Tables

LIST OF TABLES

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