

Global Light-emitting Diode (LED) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Light-emitting Diode (LED) market size was valued at USD 65560 million in 2023 and is forecast to a readjusted size of USD 169040 million by 2030 with a CAGR of 14.5% during review period.

A light-emitting diode (LED) is a two-lead semiconductor light source. It is a p–n junction diode that emits light when activated. When a suitable current is applied to the leads, electrons are able to recombine with electron holes within the device, releasing energy in the form of photons. This effect is called electroluminescence, and the colour of the light (corresponding to the energy of the photon) is determined by the energy band gap of the semiconductor. LEDs are typically small (less than 1 mm²) and integrated optical components may be used to shape the radiation pattern.

LED uses fall into three major categories which are Indicators and signs, Data communication and signaling, and Lighting. The low energy consumption, low maintenance and small size of LEDs has led to uses as status indicators and displays on a variety of equipment and installations. Large-area LED displays are used as stadium displays, dynamic decorative displays, and dynamic message signs on freeways. Thin, lightweight message displays are used at airports and railway stations, and as destination displays for trains, buses, trams, and ferries. With the development of high-efficiency and high-power LEDs, it has become possible to use LEDs in lighting and illumination. LEDs are used as street lights and in other architectural lighting. The mechanical robustness and long lifetime are used in automotive lighting on cars, motorcycles, and bicycle lights. Light can be used to transmit data and analog signals. For example, lighting white LEDs can be used in systems assisting people to navigate

in closed spaces while searching necessary rooms or objects.

The Global Info Research report includes an overview of the development of the Light-emitting Diode (LED) industry chain, the market status of Residential (Ultraviolet LED, Polymer LED), Commercial (Ultraviolet LED, Polymer LED), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Light-emitting Diode (LED).

Regionally, the report analyzes the Light-emitting Diode (LED) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Light-emitting Diode (LED) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Light-emitting Diode (LED) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Light-emitting Diode (LED) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Technology (e.g., Ultraviolet LED, Polymer LED).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Light-emitting Diode (LED) market.

Regional Analysis: The report involves examining the Light-emitting Diode (LED) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Light-emitting Diode (LED) market. This may include

estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Light-emitting Diode (LED):

Company Analysis: Report covers individual Light-emitting Diode (LED) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Light-emitting Diode (LED). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Residential, Commercial).

Technology Analysis: Report covers specific technologies relevant to Light-emitting Diode (LED). It assesses the current state, advancements, and potential future developments in Light-emitting Diode (LED) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Light-emitting Diode (LED) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Light-emitting Diode (LED) market is split by Technology and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Technology, and by Application in terms of volume and value.

Market segment by Technology

Ultraviolet LED

Polymer LED

Organic LED

Basic LED

High Brightness LED

Market segment by Application

Residential

Commercial

Industrial

Others

Major players covered

Cree

GE Lighting

LG Innotek

NICHIA

OSRAM

Philips Lighting

Samsung Electronics

Dialight

Eaton

Emerson

Everlight Electronics

Seoul Semiconductor

Toyoda Gosei

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Light-emitting Diode (LED) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Light-emitting Diode (LED), with price, sales, revenue and global market share of Light-emitting Diode (LED) from 2019 to 2024.

Chapter 3, the Light-emitting Diode (LED) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Light-emitting Diode (LED) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Technology and application, with sales market share and growth rate by technology, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Light-emitting Diode (LED) market forecast, by regions, technology and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Light-emitting Diode (LED).

Chapter 14 and 15, to describe Light-emitting Diode (LED) sales channel, distributors, customers, research findings and conclusion.

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