

# **Solid State Lighting Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Light Emitting Diode (LED), Organic Light Emitting Diode (OLED), Polymer Light Emitting Diode (PLED)), By Installation Type (New Installation, Retrofit), By Applications, By Industry Vertical**

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## **Abstracts**

The Solid State Lighting Market is valued at USD 44.4 billion in 2025 and is projected to grow at a CAGR of 10.7% to reach USD 110.7 billion by 2034. The solid state lighting (SSL) market is a vital component of the global energy efficiency movement, driven by the transition from traditional lighting technologies such as incandescent and fluorescent bulbs to advanced LED and OLED solutions. Solid state lighting uses semiconductors to convert electricity into light, offering substantial advantages including lower energy consumption, longer lifespan, reduced maintenance, and lower heat output. SSL technology has become central to modern lighting in residential, commercial, industrial, and outdoor applications. Governments and private sectors alike are embracing SSL to reduce carbon footprints, meet sustainability goals, and lower electricity costs. Its adaptability across smart homes, automotive systems, horticulture lighting, and street infrastructure makes SSL not only an energy-saving solution but also a platform for innovation in design, automation, and connectivity. As urbanization expands and infrastructure modernizes, the demand for intelligent, durable, and cost-effective lighting continues to propel this market forward. The solid state lighting market experienced significant advancements, particularly with the integration of connected lighting systems and IoT compatibility. Smart LED fixtures became more common in commercial and public sectors, allowing facilities to manage energy consumption remotely and adjust illumination dynamically based on occupancy or daylight levels. OLED lighting made strides in architectural and interior design applications, where thin, flexible panels

offered new aesthetic opportunities. Innovations in materials also contributed to improved color rendering, efficiency, and thermal management of LEDs. Globally, public lighting projects transitioned toward smart LED streetlights, driven by national energy-saving mandates and urban sustainability plans. The year also saw increased collaboration between lighting manufacturers and smart building solution providers, aligning SSL with larger digital infrastructure ecosystems. Meanwhile, supply chain stabilization following earlier disruptions helped manufacturers meet the growing demand for retrofitting and new installations across developing regions, further accelerating global market penetration. The solid state lighting market is expected to evolve through enhanced smart integration, material innovation, and expanded application areas. As cities continue to digitize, SSL systems will increasingly be embedded with AI and sensors to deliver predictive maintenance, adaptive brightness, and energy optimization in real time. In residential sectors, demand will grow for tunable white and circadian lighting systems that support wellness and human-centric environments. OLEDs are projected to become more commercially viable, especially in automotive interiors and premium design spaces, supported by advances in cost reduction and light uniformity. Horticulture and UV-C disinfection lighting will emerge as fast-growing niches, with SSL playing a key role in food production and public health solutions. On the regulatory front, stricter energy efficiency standards will push legacy lighting out of the market entirely. However, the pressure to reduce e-waste and improve end-of-life recyclability of SSL products will also gain attention, prompting shifts toward circular economy models. As innovation expands and adoption deepens, SSL will remain a foundational technology for sustainable and intelligent lighting infrastructure worldwide.

## Key Insights Solid State Lighting Market

Integration of smart controls and IoT in LED systems is transforming lighting into an intelligent service, enabling features such as occupancy sensing, remote dimming, and energy analytics for improved facility management and user comfort.

Growing adoption of OLED lighting in premium architectural and automotive interiors is reshaping lighting aesthetics, offering ultra-thin, glare-free, and flexible panels that blend seamlessly into modern design elements.

Human-centric lighting (HCL) solutions are gaining traction in workplaces and homes, allowing users to adjust light temperature and intensity to align with circadian rhythms, enhancing health, productivity, and mood.

SSL-based horticultural lighting is expanding rapidly as indoor farming and vertical agriculture gain momentum, with customized LED spectra used to boost plant growth, yield, and energy efficiency in controlled environments.

UV-C LED lighting is emerging in healthcare and public infrastructure for disinfection purposes, offering chemical-free sterilization in air, water, and surface applications to address post-pandemic hygiene demands.

Rising energy efficiency mandates and environmental regulations are compelling governments and industries to phase out traditional lighting and adopt SSL for its superior performance and sustainability benefits.

Increasing urbanization and infrastructure development are driving demand for modern, long-lasting lighting solutions that reduce maintenance and operating costs in public, commercial, and residential spaces.

Technological innovation in LEDs, materials, and integrated systems is continuously improving the functionality, cost-effectiveness, and versatility of solid state lighting across new application areas.

Growing awareness of the health and wellness benefits of lighting is pushing demand for tunable, low-glare, and biologically optimized lighting in homes, schools, and offices.

E-waste management and recyclability of SSL components pose a rising concern. With increased adoption comes the need for sustainable disposal and recovery of rare materials, pushing the industry to develop circular design and end-of-life solutions to mitigate environmental impact.

## Solid State Lighting Market Segmentation

### By Type

Light Emitting Diode (LED)

Organic Light Emitting Diode (OLED)

## Polymer Light Emitting Diode (PLED)

### By Installation Type

New Installation

Retrofit

### By Applications

Indoor Lighting

Outdoor Lighting

Specialty Lighting

### By Industry Vertical

Residential

Industrial And Commercial

Medical

Transportation

Other Industry Vertical

### Key Companies Analysed

Samsung Electronics Co. Ltd

General Electric Company

Panasonic Holdings Corporation

Mitsubishi Electric Pvt. Ltd.

Toshiba Corporation

Everlight Electronics Co. Ltd.

Koninklijke Philips N.V.

Signify Holding B.V.

Energy Focus Inc.

OSRAM GmbH

Hubbell Incorporated

Acuity Brands Inc

Stanley Electric Co.

Zumtobel Group

Seoul Semiconductor Co. Ltd.

Cree LED

Lumileds Holding B.V.

Cooper Lighting LLC

Bridgelux Inc.

TCP Lighting

Sanken Electric Co. Ltd.

Intematix Corporation

Seoul Viosys Co. Ltd.

Phoenix Products LLC

Nichia Corporation

## Solid State 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.

## Solid State 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 — Solid State Lighting market data and outlook to 2034

United States

Canada

Mexico

Europe — Solid State Lighting market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Solid State Lighting market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Solid State Lighting market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Solid State 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 Solid State 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 Solid State 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 Solid State Lighting Market Report

Global Solid State Lighting market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Solid State Lighting trade, costs, and supply chains

Solid State Lighting market size, share, and outlook across 5 regions and 27 countries, 2023-2034

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

Short- and long-term Solid State Lighting market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Solid State Lighting supply chain analysis

Solid State Lighting trade analysis, Solid State Lighting market price analysis, and Solid State Lighting supply/demand dynamics

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

Latest Solid State 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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