

Global Street Lighting Market Size Study, by Technology (LED, Solar, Traditional), by Product Type (Smart Street Lights, Conventional Street Lights, Hybrid Street Lights), by Installation Type (New Installation, Retrofit), by End Use (Residential, Commercial, Industrial, Municipal), and Regional Forecasts 2022-2032

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Abstracts

The Global Street Lighting Market is valued at approximately USD 12.76 billion in 2023 and is anticipated to grow at a CAGR of 5.76% over the forecast period 2024-2032. As urbanization accelerates and infrastructure modernization gains momentum worldwide, the demand for energy-efficient and intelligent street lighting solutions is rising exponentially. Street lighting systems, which were once designed solely to illuminate roads and pedestrian pathways, are now transforming into smart infrastructure solutions integrated with IoT, AI-powered sensors, and adaptive lighting control technologies. With global governments investing heavily in sustainable urban development projects, the adoption of LED and solar-based street lighting solutions is increasing significantly.

The shift toward smart city projects has further fueled the demand for smart street lighting systems, which optimize energy usage, reduce operational costs, and enhance safety through intelligent remote monitoring and automation features. Additionally, municipalities and government agencies are focusing on solar-powered street lights to minimize carbon footprints and reliance on grid electricity. The retrofit segment is experiencing substantial growth, as authorities seek to replace aging conventional lighting infrastructure with more energy-efficient alternatives. However, despite strong growth potential, high initial installation costs and challenges related to integrating smart lighting networks with legacy systems remain key obstacles for widespread adoption.

The rapid advancements in LED technology and the integration of motion-sensing and adaptive brightness control are reshaping the street lighting landscape. Many key players in the industry are investing in hybrid lighting solutions, which combine solar energy with battery storage and grid power to ensure uninterrupted lighting. Moreover, government initiatives offering subsidies and incentives for energy-efficient lighting upgrades are accelerating market expansion. The increasing focus on public safety, crime prevention, and environmental sustainability is further propelling demand for connected and AI-driven street lighting networks in urban and suburban regions.

Regionally, North America dominated the market in 2023, attributed to its widespread adoption of smart street lighting solutions, robust government initiatives for energy conservation, and strong presence of key players developing next-generation lighting systems. Meanwhile, Asia-Pacific is anticipated to witness the fastest growth, driven by rapid urbanization, infrastructure expansion, and increasing investments in smart city projects across China, India, Japan, and Southeast Asia. Europe remains a significant contributor, particularly due to its stringent energy efficiency regulations and sustainability mandates, which are encouraging widespread deployment of LED and solar-powered street lighting systems.

Major Market Players Included in This Report

Signify N.V. (Philips Lighting)

Cree Lighting (a company of Ideal Industries)

Acuity Brands, Inc.

General Electric Company

OSRAM Licht AG

Eaton Corporation plc

Hubbell Incorporated

LED Roadway Lighting Ltd.

Thorn Lighting

Syska LED Lights

Dialight PLC

Bridgelux Inc.

Schreder Group

Zumtobel Group AG

Leotek Electronics Corporation

The Detailed Segments and Sub-Segments of the Market Are Explained Below:

By Technology:

LED

Solar

Traditional

By Product Type:

Smart Street Lights

Conventional Street Lights

Hybrid Street Lights

By Installation Type:

New Installation

Retrofit

By End Use:

Residential

Commercial

Industrial

Municipal

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia-Pacific

Latin America:

Brazil

Mexico

Rest of Latin America

Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years Considered for the Study:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024 to 2032

Key Takeaways:

Market Estimates & Forecasts for 10 years (2022-2032).

Annualized revenue and regional-level analysis for each market segment.

Detailed geographical analysis with country-level insights.

Competitive landscape assessment, covering key market players.

In-depth business strategy insights and recommendations for future market expansion.

Supply and demand analysis to track emerging industry trends and investment opportunities.

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