

Solar Street Lighting Market to Hit \$11.1 Billion by 2033, Driven by Urbanization & Green Infrastructure

Global Solar Street Lighting Market Set for \$11.1 Billion Growth by 2033 at 10.5% CAGR

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According to a new report published by Allied Market Research, the global [solar street lighting market](#) size was valued at \$4.1 billion in 2023 and is projected to reach \$11.1 billion by 2033, growing at a CAGR of 10.5% from 2024 to 2033.

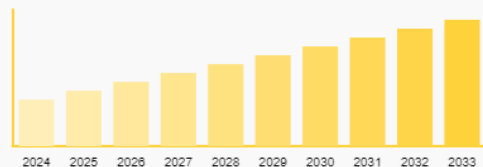
Report Insights

Market was valued at
\$4.1 Billion
2023

Projected to reach
\$11.1 Billion
2033

Growing at a CAGR
10.5% From
2024-2033

CAGR 10.5%



Solar Street Lighting Market
Report Code: A07227

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This growth is fueled by increasing urbanization, demand for sustainable energy solutions, and government initiatives promoting green infrastructure. Solar street lighting has emerged as a key solution to reduce carbon emissions while ensuring cost-effective, reliable, and energy-efficient public lighting systems.



Solar street lighting market to hit \$11.1B by 2033, fueled by urbanization, sustainability goals, and government green infrastructure support.”

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□ Key Drivers of Growth

Urbanization & Smart Cities

Rapid urban development across Asia-Pacific, the Middle East, and Africa is creating a strong need for [sustainable lighting](#) solutions.

Solar street lighting systems enhance public safety while lowering dependency on traditional grid-connected streetlights.

Government Initiatives & Policies

Favorable policies and subsidies for renewable energy adoption are driving solar street lighting projects.

National and local authorities are increasingly integrating solar lighting into their green infrastructure programs.

Cost & Energy Efficiency

Solar street lights reduce operational costs and require minimal maintenance compared to conventional lighting.

With declining solar panel costs and advancements in battery storage, solar street lights are becoming more affordable and reliable.

□ Opportunities in the Market

Rural Electrification: Emerging economies are adopting solar street lighting in remote and off-grid locations where traditional electricity access is limited.

Smart Integration: The integration of IoT-enabled smart lighting and energy monitoring systems creates opportunities for advanced applications in smart cities.

Sustainability Goals: Growing commitments to net-zero carbon targets worldwide open up significant opportunities for large-scale solar lighting deployments.

Corporate & Industrial Adoption: Businesses are increasingly installing solar street lights in commercial and industrial premises to improve efficiency and reduce environmental impact.

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<https://www.alliedmarketresearch.com/solar-street-lighting-market/purchase-options>

□ Market Segmentation

By Type

Standalone

Hybrid

Smart

Modular

Others

By Application

Residential

Commercial

Industrial

By Region

North America (U.S., Canada, Mexico)

Europe (France, UK, Germany, Spain, Italy, Rest of Europe)

Asia-Pacific (China, India, Japan, South Korea, Australia, Rest of Asia-Pacific)

LAMEA (Brazil, Saudi Arabia, South Africa, Rest of LAMEA)

□ Regional Insights

Asia-Pacific: A Growing Hub

The Asia-Pacific region represents a significant share of the global solar street lighting market. Rapid urbanization, population growth, and the need for reliable energy-efficient infrastructure are driving adoption.

Governments in countries like India, China, and Japan are investing heavily in solar-powered street lighting as part of sustainable urban development projects. In addition, policy incentives, subsidies, and public-private partnerships are accelerating deployment across cities and rural areas.

North America & Europe: Tech-Driven Growth

Regions like North America and Europe are witnessing adoption driven by technological innovation, smart grid integration, and growing emphasis on reducing carbon footprints.

LAMEA: Infrastructure Expansion

The Latin America, Middle East, and Africa (LAMEA) region is focusing on solar projects to address electrification gaps, particularly in remote and underserved areas.

□ Key Market Players

The [solar street lighting industry](#) is highly competitive, with major players investing in advanced technologies and expanding their global footprint. Key companies include:

Shenzhen Luxman Light Co., Ltd.

Guangzhou Anern Energy Technology Co., Ltd.

Amrut Energy Pvt Ltd.

Hangzhou Hpwinner Opto Corporation

Shenzhen Clode Optoelectronic Co., Ltd.

Fonroche Lighting America, Inc.

Wolta Power System

Shenzhen Moonlight Technology Co., Ltd.

Gemma Lighting

Shenzhen KYD Light Co., Ltd.

These players focus on product innovation, strategic partnerships, and expanding into high-growth regions to strengthen their market presence.

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□ Conclusion

The solar street lighting market is set for robust growth over the next decade, driven by urbanization, green infrastructure initiatives, and sustainable development goals. With strong demand from Asia-Pacific and increasing investments worldwide, solar street lighting will play a vital role in reshaping public lighting solutions while contributing to global carbon reduction efforts.

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achieve sustainable growth in their respective market domain.

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