

Outdoor Solar LED Market Latest Trend, Growth, Analysis and Forecast 2025-2032

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CHICAGO, CA, UNITED STATES, May 27, 2025 /EINPresswire.com/ -- [Outdoor Solar LED Market](#) was valued at USD 9.82 bn in 2024 and is expected to grow at a 27.5 % CAGR from 2025 to 2032, reaching USD 68.58 bn by 2032.

Stellar Market Research has recently released a report titled Outdoor Solar LED Market Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2025-2032." The study provides a detailed analysis, including the global Outdoor Solar LED Market share, size, growth, trends, and forecast. The report also includes competitor and regional analysis and highlights the latest advancements in the market.

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Shine sustainably with Outdoor Solar LEDs, where innovation meets energy independence.

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Dharati Raut

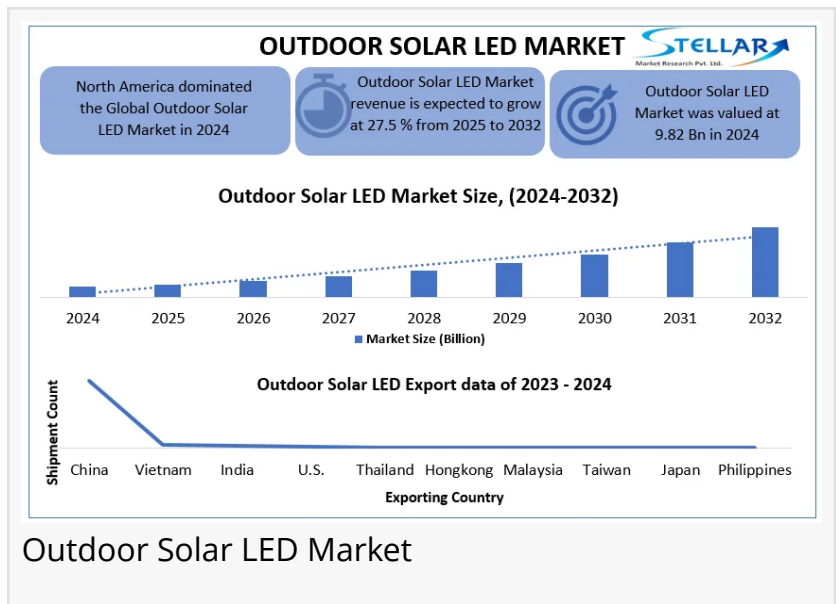
Drivers of the Outdoor Solar LED Market

Energy Independence and Off-Grid Viability

Outdoor solar LED systems provide full energy independence, perfect for remote or disaster-affected areas where grid access is limited. As they operate off-grid, these systems help cut infrastructure costs while offering a

dependable source of light. This makes them especially useful for emergencies and humanitarian missions. Governments and aid organizations are turning to solar LED lighting to bring reliable, cost-effective, and resilient solutions to communities that need them most.

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Declining Costs of Solar Panels and LED Technology

The steep decline in solar panel and LED costs has made outdoor solar LED systems more cost-effective and attractive. With reduced initial costs, extended durability, and minimal maintenance, these systems are now an accessible option for households, businesses, and public areas, fueling widespread adoption across various regions and sectors.

Outdoor Solar LED Market Segmentation

By Application

The Outdoor Solar LED Market is divided by use into street lights, garden lights, flood lights, area lights, and spot lights. As of 2024, solar street lights lead the pack with over 40% of the market, thanks to their widespread use in public infrastructure projects. Garden lights follow with about 20%, popular in homes and landscapes. Flood lights make up 15%, while area lights and spot lights account for 13% and 12%.

By Wattage

The Outdoor Solar LED Market is segmented by wattage into three ranges: under 39W, 40W to 149W, and over 150W. In 2024, the 40W to 149W range leads the market with over 50% share, mainly because it's ideal for street and area lighting. Lights under 39W range about 30%, often chosen for gardens and pathways. The higher wattage segment over 150W holds 20% and is mostly used in industrial areas and for floodlighting needs.

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Outdoor Solar LED Market Regional Analysis

Asia-Pacific

Asia-Pacific dominates the Outdoor Solar LED Market in 2024, holding over 45% of the global share. This strong position is due to rapid urban growth, supportive government initiatives, and plenty of sunshine. Countries like India and China are at the forefront, with programs like India's Street Lighting National Programme (SLNP) boosting adoption. The region also benefits from affordable local manufacturing and a high demand for off-grid lighting, making solar LED solutions both cost-effective and easy to scale.

Europe

Europe ranks as the second-largest dominating region in the Outdoor Solar LED Market, holding

around 20–25% of the global share in 2024. This growth is fueled by rising energy costs, strict environmental regulations from the EU, and a strong push toward smart city development. Countries like Germany, the Netherlands, and France are leading the charge, thanks to generous funding programs and a clear focus on building greener, more sustainable urban spaces.

North America

North America holds the third position in the Outdoor Solar LED Market with approximately 15% of the global share. The region's growth is supported by government incentives, energy-saving initiatives, and smart city developments. The adoption is limited by higher initial costs, fewer large-scale projects, and seasonal sunlight fluctuations.

Middle East & Africa

The Middle East & Africa holds approximately 5–7% of the global Outdoor Solar LED Market, placing it fourth worldwide. While the region has vast solar potential, growth is hindered by limited funding, the absence of local manufacturing, weak policy support, and inconsistent infrastructure development across different countries.

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Outdoor Solar LED Market Competitive Landscape

Signify Holding (Netherlands): In April 2025, Signify formed a joint venture with Dixon Technologies through a joint venture aimed at boosting their lighting OEM business. This move is expected to strengthen their manufacturing capabilities and help them reach more markets. Also in 2025, Signify collaborated with US Ignite to convert lighting infrastructure into high-speed wireless communication hubs, enabling the integration of smart city technologies.

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Recent Developments:

In June 2024, HAICHANG OPTOTECH CO., LIMITED introduced a stylish and practical new product: the IP65 Waterproof Solar LED Pillar Lights. These lights are built to brighten outdoor spaces and enhance their visual appeal, making them ideal for modern landscapes.

About Stellar Market Research:

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