

Outdoor Solar LED Market Expected to Reach \$44.4 Billion by 2032

The outdoor solar led market was valued at \$6.4 billion in 2022, and is estimated to reach \$44.4 billion by 2032, growing at a CAGR of 21.6% from 2023 to 2032.

WILMINGTON, DE, UNITED STATES, November 24, 2025 /EINPresswire.com/ -- The global [Outdoor solar LED market](#) share is expected to witness considerable growth, owing to emerging applications such as streetlights, security lights, garden lights and more in areas such as residential and commercial sectors, providing new opportunities for the outdoor solar LED market in emerging economies such as India, South Korea, Brazil, Dubai, and especially in Asia-Pacific and LAMEA region, which is expected to drive the outdoor solar LED market growth.

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Outdoor solar LED lights have become a popular choice for lighting up outdoor spaces due to their energy efficiency and eco-friendliness. The outdoor solar LED is equipped with various types of lighting applications to meet different requirements and aesthetic preferences. The market for outdoor solar LEDs is experiencing growth, particularly in the residential and commercial sectors, where consumers are increasingly interested in sustainable and cost-effective lighting options. Smart features such as motion sensors, remote controls, and smartphone connectivity are making these lights convenient and user-friendly. The market for outdoor solar LEDs is projected to grow with the improvements in technology and design. One of the primary aspects driving this growth is the increase in need for environment-friendly and energy-efficient lighting solutions.

The growth of global outdoor solar LED is majorly driven by the increase in demand for eco-friendly and sustainable lighting solutions paired with government initiatives and policies promoting the use of solar energy and energy-efficient lighting. Moreover, the decrease in prices of LED lighting and solar panels is expected to drive the market growth. However, high initial installation costs of solar LEDs are acting as prime restraints for the growth of the global market. On the contrary, surge in adoption of smart city technologies is anticipated to provide lucrative opportunities for the outdoor solar LED industry during the forecast period.

According to outdoor solar LED market analysis, the streetlight segment was the highest contributor to the market in 2022. The low voltage and medium voltage collectively accounted

for around 91.8% market share in 2022. Surge in prime players initiatives to develop and deploy next generation renewable energy solution across commercial and residential sectors globally has led the growth of the outdoor solar LED market growth

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The outbreak of COVID-19 has significantly impacted the growth of global supply chain. The decline in growth in manufacturing solutions has significantly impacted the demand for outdoor solar lights solutions during the pandemic. Further, the lack of availability of a professional workforce due to the partial and complete lockdown implemented by governments across the globe has restrained the growth of the outdoor solar LED market during the pandemic. However, the surge in demand for renewable energy and solar lights solution in growing economies such as India, South Korea, Brazil, and others is expected to drive the growth of the outdoor solar LED market during the forecast period.

The outdoor solar LED market is analyzed across type, voltage, end use, and region. By type, the street light segment dominated the outdoor solar LED market in 2022 and is expected to dominate the market during the forecast period. By voltage, the low voltage segment accounted for the major share in the outdoor solar LED market. By end use, the commercial segment accounted for a major share in global outdoor solar LED market trends, owing to surge in demand from emerging market globally. Region-wise, Asia-Pacific holds a significant share of the global outdoor solar LED market, owing to the presence of prime players in this region. China dominated the outdoor solar LED market in the Asia-Pacific outdoor solar LED market. The rise in investment by prime players and government agencies to develop next-generation aerospace and defense solutions has led to the growth of the outdoor solar LED market.

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KEY FINDINGS OF THE STUDY

In 2022, the streetlights segment accounted for maximum revenue and is projected to grow at a notable CAGR of 21.2% during the forecast period.

The commercial voltage segment was the highest revenue contributor to the outdoor solar LED market size in 2022.

The low voltage and medium voltage segments collectively accounted for around 91.8% outdoor solar LED market share in 2022.

Asia-pacific acquired a major share in the outdoor solar LED market with an industry share of 22.7% in 2022.

The key players profiled in the report Signify Holding, OSRAM GmbH. SOKOYO Solar Lighting Co., Ltd., OkSolar.com, SEPCO Solar Electric Power Company, LEADSUN , Polybrite - SBM

NewTech Co., Ltd, Sunna Design SA, Solar Street Lights USA , and Jiawei. Market players have adopted various strategies such as product launch, partnership, joint venture, acquisition, and others to expand their foothold in the Outdoor solar LED market size. In January 2022- OSRAM launched its OPTOTRONIC 1DIM and 4DIM LED families and thus considerably extended their power spectrum. The 1DIM LED driver family also supports the 75 and 165 W power classes. With double isolation and enhanced power levels, this future-oriented driver family can serve many more purposes while offering high levels of safety when used in outdoor or industrial applications

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