

# **Solar Lighting System Market Size, Share, & Trends Analysis Report By Offerings (Hardware, Software, Services), By System Type (Standalone, Hybrid, Grid-connected), By Technology, By Installation Type, By Application, By Region, And Segment Forecasts, 2026 - 2033**

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## **Abstracts**

The global solar lighting system market size was estimated at USD 12.35 billion in 2025 and is projected to reach USD 31.47 billion by 2033, growing at a CAGR of 12.6% from 2026 to 2033. The market is witnessing strong expansion as governments, municipalities, and private organizations increasingly adopt renewable energy-based lighting solutions to reduce electricity consumption and carbon emissions.

Solar lighting systems provide an energy-efficient alternative to conventional grid-powered lighting by utilizing photovoltaic technology and battery storage, enabling reliable illumination in both grid-connected and off-grid environments. Rapid urbanization, infrastructure modernization, and the growing focus on sustainable development are collectively accelerating global adoption.

The rising global focus on clean energy transition and decarbonization initiatives is one of the major drivers. Governments across developed and emerging economies are implementing policies promoting renewable energy deployment, smart cities, and energy-efficient public infrastructure. Solar street lighting projects, rural electrification programs, and sustainable urban planning initiatives are significantly increasing demand. In addition, declining costs for solar panels, LEDs, and battery technologies have improved system affordability, making solar lighting economically viable compared to traditional lighting systems over the long term.

One of the key growth factors is the increasing demand for off-grid and reliable lighting solutions, particularly in remote and underserved regions. Solar lighting systems eliminate dependence on unstable power grids and reduce operational costs associated with fuel-based or grid electricity. This makes them highly suitable for rural communities, highways, industrial sites, and disaster-prone areas where a consistent electricity supply remains a challenge. The integration of advanced battery storage and automatic energy management systems further enhances operational efficiency and reliability.

Technological advancements are also playing a crucial role in market expansion. The adoption of LED-based lighting, smart controllers, motion sensors, and IoT-enabled monitoring systems is transforming solar lighting into an intelligent infrastructure solution. Smart solar lighting systems enable remote monitoring, adaptive brightness control, predictive maintenance, and energy optimization, which are particularly attractive for smart city deployments and large-scale municipal projects. These innovations are improving system performance while reducing maintenance requirements, thereby strengthening return on investment for end users.

Furthermore, increasing investments in public infrastructure, commercial real estate development, and industrial sustainability initiatives are expected to sustain long-term market growth. Public infrastructure applications, including streets, parks, transportation hubs, and public facilities, represent a major share of installations due to large-scale government procurement. Meanwhile, residential and commercial adoption is rising as consumers seek energy independence and lower electricity expenses. With supportive regulatory frameworks, continuous technological improvements, and expanding awareness of renewable energy benefits, the solar lighting system market is poised for strong growth throughout the forecast period.

## Global Solar Lighting System Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the solar lighting system market report based on offerings, system type, technology, installation type, application, and region.

Offerings Outlook (Revenue, USD Billion, 2021 - 2033)

Hardware

Solar Panels

LED Lamps / Luminaires

Batteries

Charge Controllers

Poles & Mounting Structures

Smart Controllers / IoT Modules

Others

Software

Services

System Type Outlook (Revenue, USD Billion, 2021 - 2033)

Standalone Solar Lighting Systems

Hybrid Solar Lighting Systems (Solar + Grid)

Grid-Connected Solar Lighting Systems

Technology Outlook (Revenue, USD Billion, 2021 - 2033)

LED-Based Solar Lighting

CFL-Based Solar Lighting

Installation Type Outlook (Revenue, USD Billion, 2021 - 2033)

New Installations

Retrofit Installations

Application Outlook (Revenue, USD Billion, 2021 - 2033)

Residential

Commercial

Industrial

Public Infrastructure

Regional Outlook (Revenue, USD Billion, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Asia Pacific

China

India

Japan

South Korea

Australia

Latin America

Brazil

Middle East & Africa

UAE

Saudi Arabia

South Africa

**This report can be delivered to the clients within 5 Business Days**

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