

Solar landscape lighting products are made up of four main components: the solar photovoltaic

(PV) panel, battery, control electronics, and the light fixture. Solar landscape lighting products can be customized with different features based on research and customer demand which is going to increase the solar landscape lighting market share in the decorative lighting industry. Solar lighting products come with several features and storing of energy which boosts the solar landscape lighting market trends in coming years.

Solar landscape lighting has many advantages, one mainly being it is a self-sustainable unit that helps lower the outdoor lighting expense in the residential sector. The demand for decorative lighting products in developing countries creates solar landscape lighting market opportunities in the coming years. Solar landscape lighting is a sustainable and convenient lighting solution due to which commercial and industrial sectors have installed solar landscape lighting at intersections and other pedestrian locations.

In addition, solar landscape lighting assists in illuminating places with limited access to grid electricity. The surge in awareness and promotion of green energy solution usage is expected to drive the global solar landscape lighting market growth. The demand for solar landscape lighting has increased in residential projects as the product enhances property aesthetics, security, and safety of buildings & surrounding areas.

Solar landscape lighting is energy-saving, durable, affordable, safe, and eco-friendly, which is expected to drive its demand in smart buildings and residential projects. The products in the solar landscape lighting industry come with security and motion sensor features, which boost the demand for various security applications. Solar wall light products are waterproof and heat and cold-resistant, which boosts their demand in the residential segment. Solar wall lights products can be used for security purposes as products can adjust their brightness automatically on rainy days and extends lighting time substantially.

Solar motion sensor wall light is highly recommended for the application of security lights. The market for solar motion sensor wall light is expected to experience growth during the forecast period as these products keep homes and businesses secure, reduce electricity costs, and contribute to a cleaner & greener environment. Solar motion sensor wall light product operates through three different modes, which include- light operation (on/off), dim mode & bright mode, and continuous dim mode, which help lower energy consumption.

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The solar landscape lighting market forecast is segmented based on type, panel type, solar power system, end-use, application, and region. Based on type, the market is classified into solar post lights, solar flood lights, solar lanterns, solar deck lights, solar wall lights, solar step lights, solar fence lights, solar walkway lights, solar porch lights, solar driveway lights, solar lawn lights, and others. Based on panel type, the market is divided into polycrystalline, monocrystalline, and amorphous. Based on solar power systems, the market is categorized into off-grid, on-grid, and

hybrid. Based on end-use, the market is segregated into residential, commercial & industrial, and others. Based on application, the market is fragmented lighting, decoration, and security. Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Based on type, the solar post lights segment held a 20.6% share in terms of revenue and the segment is expected to grow at the highest CAGR of 7.6% from 2023 to 2032. Solar post-light products are inexpensive, low-power, and easy to use, and they lower the dependency on grid utility. The surge in preference for clean energy solutions in the residential sector and public infrastructure projects helps fuel the demand for solar post-light solutions in the solar landscape lighting market.

Based on panel type, the polycrystalline segment held a 50.2% share in terms of revenue and the segment is expected to grow at the highest CAGR of 7.3% from 2023 to 2032. Monocrystalline solar panels are widely accepted in small solar landscape lighting solutions. Monocrystalline solar panels are eco-friendly and are inexpensive. It does not wear out in extreme weather situations, which increases its demand in the solar landscape lighting market.

Key Market Players:

The Solar Landscape Lighting industry's key market players adopt various strategies such as product launches, product development, collaboration, partnership, and agreements to influence the market. It includes details about the key players in the market's strengths, product portfolio, market size and share analysis, operational results, and market positioning.

Key Market Players: Lee Valley Tools Ltd., Wentronic GmbH, LITOM, Smart Detect UK, LYX – Luminaires, LEDVANCE GmbH. As a subsidiary of MLS CO,LTD, CGC Interiors, Koninklijke Philips N.V., SDD HONGKONG TRADING LIMITED, hugo brennenstuhl GmbH And co. kg, Kon Lighting, Fonroche Lighting America, Inc., Greenshine New Energy, Wipro Lighting.

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Based on solar power systems, the off-grid segment held a 74.2% share in terms of revenue and is expected to grow at a CAGR of 7.1% from 2023 to 2032. Off-grid systems avoid power outages and reduce electricity costs, and their ease of installation boosts their adoption in highway projects and garden lighting. The off-grid solution acts as an alternative power source for rural

areas and highway streetlights, which increases its demand in the solar landscape lighting market.

Based on end-use, the residential segment held a 52.6% share in terms of revenue and is expected to grow at a CAGR of 7.2% from 2023 to 2032. Solar landscape lighting products are gaining popularity in residential projects and government inclination towards the use of green energy sources is expected to fuel up the demand for solar landscape lighting products in the residential segment shortly.

Solar landscape lighting products reduce the cost of outdoor garden lighting while maintaining security and the visual appeal of the home. Based on application, the lighting segment held a 42.2% share in terms of revenue and is expected to grow at a CAGR of 7.5% from 2023 to 2032. Solar landscape lighting products are used for lighting purposes at low cost. Solar landscape lighting products come with security features, which increases the demand for security applications in the forecast period.

Based on region, Asia-Pacific held a 34.5% share in terms of revenue and is anticipated to grow at a CAGR of 6.4% from 2023 to 2032. Future developments in China's solar product industry are projected to drive the growth of the solar landscape lighting market in the country. North America holds a CAGR of 6.3% during the forecast period.

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- Based on type, the solar post lights segment holds the market share of around one-fifth in 2022 in terms of revenue
- Based on panel type, the monocrystalline segment holds a market share of nearly half in 2022 in terms of revenue
- Based on solar power systems, the off-grid segment holds the market share of around three-fourths in 2022 in terms of revenue
- Based on end-use, the residential segment gained half of the market share in 2022 in terms of revenue.
- Based on application, the lighting segment gained around two-fifths of the share in 2022 in terms of revenue.
- Based on region, the Asia-Pacific region holds a market share of around one-third in 2022 in terms of revenue.

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