

Global Solar Walkway Market Growth 2026-2032

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Abstracts

The global Solar Walkway market size is predicted to grow from US\$ 61.04 million in 2025 to US\$ 175 million in 2032; it is expected to grow at a CAGR of 15.8% from 2026 to 2032.

Solar Walkway refers to a distributed photovoltaic building-material system that integrates solar cells, load-bearing pavement structures, anti-slip and abrasion-resistant transparent surfaces, frames or pedestal supports, cabling, and necessary electrical protection into walkable or low-speed trafficable ground surfaces. This study focuses on photovoltaic floor tiles, solar pavers, PV pavement slabs, walkable solar panels, and modular solar walkway systems applied in pedestrian paths, plazas, parks, commercial terraces, accessible rooftops, cycle paths, parking areas, and low-speed mobility surfaces. The core engineering requirement is to balance power generation with pedestrian safety, load resistance, impact resistance, anti-slip performance, waterproofing, serviceability, and outdoor durability, thereby transforming passive paving areas into multifunctional surfaces for on-site renewable power generation, smart-city demonstration, architectural integration, and space-efficient energy production.

In 2025, the global production of solar walkways was 160,000 square meters, with an average price of US\$390 per square meter.

From a supply perspective, the industry remains small, technically diverse, and project-oriented. Europe currently has the broadest verified supplier base, with companies covering solar pavers, walkable photovoltaic glass floors, PV pavement for transport infrastructure, terrace-mounted PV flooring, and interactive solar-energy floor systems. China's supplier base is supported by its broader BIPV glass, crystalline silicon module, CdTe thin-film, and solar building-material supply chain. Several Chinese manufacturers have official product or corporate evidence related to photovoltaic floor

tiles, solar floor panels, or BIPV ground materials. North America has technology-oriented players, but the market is still more demonstration-driven than volume-driven. Japan, South Korea, Taiwan, Southeast Asia, and India have large solar or BIPV ecosystems, but verified suppliers specifically focused on walkable photovoltaic pavement remain limited under the narrow scope adopted here.

From the demand side, Solar Walkway is unlikely to become a mass substitute for conventional pavement in the near term. Its more realistic demand base lies in smart parks, public plazas, low-carbon campuses, commercial streets, rooftop terraces, cycle paths, parking areas, and demonstration zones where energy generation, public visibility, spatial efficiency, and sustainability branding are valued together. Compared with rooftop PV or solar carports, walkable PV pavement has higher unit cost, more complex installation, and greater exposure to shading, soiling, abrasion, drainage issues, and maintenance constraints. Therefore, its economic value is usually not measured purely by levelized cost of electricity. Instead, its commercial appeal is strongest when renewable power generation, architectural integration, visitor interaction, and urban low-carbon demonstration can be packaged into one visible infrastructure surface.

From a technology roadmap perspective, the industry is shifting from the early ambition of heavy-duty solar roads toward more practical pedestrian, low-speed traffic, and building-ground applications. Heavy road use creates demanding requirements around impact resistance, skid performance, module replacement, lane closure, electrical safety, and long-term reliability. By contrast, pedestrian plazas, rooftop decks, terraces, parks, driveways, cycle paths, and parking areas provide more controllable operating conditions. These settings are better aligned with anti-slip glass, modular frames, low-voltage connections, replaceable panels, and customized BIPV engineering. The market is expected to grow from a small base as solar deployment and BIPV policies continue to expand, but it will remain a high-value, customized niche rather than a commodity PV category.

LP Information, Inc. (LPI) ' newest research report, the "Solar Walkway Industry Forecast" looks at past sales and reviews total world Solar Walkway sales in 2025, providing a comprehensive analysis by region and market sector of projected Solar Walkway sales for 2026 through 2032. With Solar Walkway sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solar Walkway industry.

This Insight Report provides a comprehensive analysis of the global Solar Walkway

landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Solar Walkway portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solar Walkway market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar Walkway and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Solar Walkway.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar Walkway market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

- Photovoltaic Floor Tiles
- Photovoltaic Paving Panels
- Solar + Kinetic Energy Hybrid Floor Tiles
- Others

Segmentation by Technology Route:

- Crystalline Silicon Glass-Glass
- CdTe Thin-Film Glass
- CIGS/Flexible Thin-Film
- Mono TOPCon/IBC High-Efficiency Cells

Other

Segmentation by Application:

Smart Parks and Plazas

Sidewalks and Footpaths

Rooftop Terraces and Decks

Cycle Paths and Micro-Mobility

Parking Areas and Driveways

Transport Infrastructure Demonstrations

Commercial and Public Buildings

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

PLATIO Solar

Onyx Solar

Colas Group

Solar Earth Technologies

Ankara Solar Energy

Solum Photovoltaic Innovation

Solar Innova

Lumyra Energy

Energy Floors

Pavegen Systems

Solar Roadways Inc.

Advanced Solar Power (Hangzhou) Inc.

Baoding Jiasheng Photovoltaic Technology Co., Ltd.

Shanghai Jia Mao New Energy Technology Co., Ltd.

Changzhou Rainbow Tile Optoelectronics Technology Co., Ltd.

Hangxiao Steel Structure Co., Ltd.

Beijing Shan Hu International Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Solar Walkway market?

What factors are driving Solar Walkway market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Solar Walkway market opportunities vary by end market size?

How does Solar Walkway break out by Type, by Application?

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