

Global Solar Walkway Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar Walkway market size is expected to reach \$ 175 million by 2032, rising at a market growth of 14.8% CAGR during the forecast period (2026-2032).

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.

This report studies the global Solar Walkway production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solar Walkway and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Solar Walkway that contribute to its

increasing demand across many markets.

Highlights and key features of the study

Global Solar Walkway total production and demand, 2021-2032, (K Sq m)

Global Solar Walkway total production value, 2021-2032, (USD Million)

Global Solar Walkway production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sq m), (based on production site)

Global Solar Walkway consumption by region & country, CAGR, 2021-2032 & (K Sq m)

U.S. VS China: Solar Walkway domestic production, consumption, key domestic manufacturers and share

Global Solar Walkway production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sq m)

Global Solar Walkway production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sq m)

Global Solar Walkway production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sq m)

This report profiles key players in the global Solar Walkway market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include PLATIO Solar, Onyx Solar, Colas Group, Solar Earth Technologies, Ankara Solar Energy, Solum Photovoltaic Innovation, Solar Innova, Lumyra Energy, Energy Floors, Pavegen Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Solar Walkway market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sq m) and average price (US\$/Sq m) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Solar Walkway Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Walkway Market, Segmentation by Type:

Photovoltaic Floor Tiles

Photovoltaic Paving Panels

Solar + Kinetic Energy Hybrid Floor Tiles

Others

Global Solar Walkway Market, Segmentation by Technology Route:

Crystalline Silicon Glass-Glass

CdTe Thin-Film Glass

CIGS/Flexible Thin-Film

Mono TOPCon/IBC High-Efficiency Cells

Other

Global Solar Walkway Market, 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

Companies Profiled:

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 Answered:

1. How big is the global Solar Walkway market?
2. What is the demand of the global Solar Walkway market?
3. What is the year over year growth of the global Solar Walkway market?
4. What is the production and production value of the global Solar Walkway market?
5. Who are the key producers in the global Solar Walkway market?
6. What are the growth factors driving the market demand?

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