

Global Thin-Film Embedded Solar Glass Market Growth 2025-2031

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Abstracts

The global Thin-Film Embedded Solar Glass market size is predicted to grow from US\$ 572 million in 2025 to US\$ 1241 million in 2031; it is expected to grow at a CAGR of 13.8% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Thin-Film Embedded Solar Glass is an advanced photovoltaic technology that integrates thin-film solar cells—such as CdTe, CIGS, or perovskite—directly into architectural glass panels. It enables seamless energy generation within building elements like windows, facades, and skylights, making it a core component of Building-Integrated Photovoltaics (BIPV).

The global Solar Photovoltaic Glass market was valued at approximately USD 5017.30 million in 2024 and is projected to reach USD 7699.15 million by 2030, growing at a CAGR of 6.4%.

Solar photovoltaic (PV) glass typically refers to glass that forms an integrated solar power system by bonding it to PV modules such as crystalline silicon solar cells. This type of glass is typically used in large-scale photovoltaic power plants or rooftop installations and has a high photovoltaic conversion efficiency. In contrast, thin-film embedded solar glass forms an integrated photovoltaic material by embedding thin-film solar cells (e.g., materials such as CdTe, CIGS, or chalcogenide) directly into the glass. This technology incorporates solar energy conversion functionality into building materials with higher aesthetic and functional advantages, and is particularly suitable for

building integrated photovoltaic (BIPV) systems.

Innovations in materials such as Perovskite, CdTe and CIGS have improved efficiency and flexibility, making them suitable for a variety of applications, including building-integrated photovoltaics (BIPV). Countries such as Japan are investing heavily (e.g., \$1.5 billion) to commercialize ultra-thin, flexible photoresist solar cells to reduce dependence on traditional energy sources and challenge global competitors. The trend toward building-integrated photovoltaics (BIPV) is accelerating, with thin-film solar glass being used in windows, facades, and roofs, combining aesthetics with functionality.

Thin-film solar glass is gaining traction as the technology is lightweight, flexible, and offers more design versatility than traditional silicon-based solar panels. The thin-film solar glass market is expected to witness significant growth, especially in the upstream supply chain (e.g., raw materials and production technologies) as well as in the downstream markets of construction, real estate, and renewable energy projects. Increasing efficiency, innovations in new materials, and favorable government policies will drive wider adoption of the technology in various industries in the coming years.

The development of tandem solar cells stacked with multilayer photovoltaic materials has improved energy conversion efficiency and made thin-film technology more competitive. Despite the challenges, the thin film photovoltaic market is expected to account for 10-12% of the global solar energy market by 2035, driven by technological advancements and growing demand for renewable energy solutions.

LP Information, Inc. (LPI) ' newest research report, the "Thin-Film Embedded Solar Glass Industry Forecast" looks at past sales and reviews total world Thin-Film Embedded Solar Glass sales in 2024, providing a comprehensive analysis by region and market sector of projected Thin-Film Embedded Solar Glass sales for 2025 through 2031. With Thin-Film Embedded Solar Glass sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Thin-Film Embedded Solar Glass industry.

This Insight Report provides a comprehensive analysis of the global Thin-Film Embedded Solar Glass 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 Thin-Film Embedded Solar Glass portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thin-Film Embedded Solar Glass

market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thin-Film Embedded Solar Glass 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 Thin-Film Embedded Solar Glass.

This report presents a comprehensive overview, market shares, and growth opportunities of Thin-Film Embedded Solar Glass market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

CdTe Material

CIGS Material

Others

Segmentation by Application:

Commercial

Residential

Others

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.

NSG Group

AGC Inc.

Onyx Solar

Xinyi Solar

IRICO Group

CNBM

Flat Solar Glass

Polysolar

SolarWindow

Kaneka

Vidurglass

CSG Holding

AVIC Sanxin

Trumph New Energy

Huamei Solar Photovoltaic Glass

Taiwan Glass

Saint-Gobai

Interfloat

Guardian

Xiuqiang

Topray Solar

Yuhua

Hanwha Qcells

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thin-Film Embedded Solar Glass market?

What factors are driving Thin-Film Embedded Solar Glass market growth, globally and by region?

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

How do Thin-Film Embedded Solar Glass market opportunities vary by end market size?

How does Thin-Film Embedded Solar Glass break out by Type, by Application?

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