

Global Building-Integrated Photovoltaic Glass Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Building-Integrated Photovoltaic Glass market size was valued at US\$ 2243 million in 2025 and is forecast to a readjusted size of US\$ 5736 million by 2032 with a CAGR of 14.5% during review period.

Building-Integrated Photovoltaic Glass is an energy-generating architectural glass product that integrates photovoltaic cells or thin-film photovoltaic layers into building-grade glass components. It typically combines glass substrates, crystalline silicon cells or thin-film absorber layers, encapsulation materials, conductive interconnects, laminated or insulated safety-glass structures, transparent or colored surface treatments, electrical connectors and building-interface designs. The product serves as part of the building envelope, including facades, curtain walls, spandrel panels, skylights, canopies, balustrades, shading devices and roof glazing, while converting solar radiation into electricity. In this study, the scope focuses on glass-based BIPV products that function as architectural components, including crystalline-silicon laminated photovoltaic glass, transparent or semi-transparent solar glass, colored photovoltaic facade glass, CdTe and CIGS thin-film power-generating glass, glass-based perovskite photovoltaic products and other glass-based BIPV modules for building facades and daylighting applications.

Based on our research, BIPV glass should be understood as a multifunctional building material rather than a conventional photovoltaic module attached to a building. Its value proposition comes from the combination of electricity generation, building-material substitution, energy performance improvement, architectural aesthetics and carbon reduction. This makes the purchasing logic materially different from that of utility-scale

or rooftop PV modules. While conventional PV is mainly assessed through module efficiency, system cost and levelized electricity cost, BIPV glass must also satisfy architectural safety, façade engineering, fire performance, wind-load resistance, daylighting, shading, thermal insulation, acoustic performance, color stability, customized dimensions and building-lifetime requirements. This explains why the market remains project-driven and customized, and why it is unlikely to follow the same rapid commoditization path as standard PV modules in the near term. Under the narrow scope used in this study, the market covers energy-generating glass products that can function as building components, including PV curtain-wall glass, transparent and semi-transparent solar glass, colored photovoltaic façade glass and glass-based BIPV modules.

Demand growth is primarily coming from three applications: façade and skylight integration in commercial buildings, public buildings, transportation hubs and industrial parks; low-carbon renovation of existing façades, canopies, balustrades and parking structures; and net-zero or near-zero-energy buildings where visible renewable building materials support sustainability targets. Compared with conventional rooftop PV, vertical façade PV usually has a less favorable energy yield profile, but it offers a unique urban value proposition: it does not require additional land, can improve the energy profile of the building envelope and can enhance the low-carbon value of building assets. Policy developments around building energy efficiency in Europe, renewable-energy visualization and next-generation PV in Japan, distributed PV and green-building adoption in China, and public-building decarbonization in North America all support long-term demand. As building owners increasingly evaluate operational energy, embodied carbon, tenant appeal and asset value, BIPV glass can sustain a higher acceptable price range than standard PV modules.

On the technology side, crystalline-silicon laminated BIPV glass remains the most commercially mature product route, supported by high efficiency, a mature PV supply chain and accumulated reliability data. CdTe and CIGS thin-film products offer differentiated advantages in low-light performance, façade aesthetics, temperature behavior and color uniformity, making them suitable for large building skins and colored façade applications. Transparent solar glass, OPV films and glass-based perovskite PV represent the longer-term innovation frontier, but their adoption still depends on efficiency, durability, certification, cost and manufacturing consistency. Competitive differentiation is therefore shifting from cell efficiency alone to a broader set of capabilities: architectural certification, size customization, color stability, glass safety, installation efficiency, hidden electrical design, monitoring and integration with façade systems. Companies that combine photovoltaic know-how, glass processing, electrical

design and building-envelope engineering are likely to command stronger positions in project-based markets.

Looking ahead, BIPV glass is transitioning from demonstration-driven adoption to early-scale commercialization. In the short term, market expansion will remain constrained by high upfront cost, fragmented standards, long building-design cycles, complex engineering liability and immature project financing models. Over the medium to long term, however, building decarbonization, urban facade PV potential, colored solar materials, perovskite commercialization and regional supply-chain localization should support steady penetration. The industry is unlikely to become a pure commodity market in the same way as standard PV modules; instead, it is expected to evolve into a multi-layered competitive landscape combining global glass groups, specialist BIPV manufacturers, regional facade suppliers and differentiated thin-film or transparent-PV technology companies.

This report is a detailed and comprehensive analysis for global Building-Integrated Photovoltaic Glass market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Building-Integrated Photovoltaic Glass market size and forecasts, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Building-Integrated Photovoltaic Glass market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Building-Integrated Photovoltaic Glass market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Building-Integrated Photovoltaic Glass market shares of main players, shipments in revenue (\$ Million), sales quantity (Sq m), and ASP (US\$/Sq m), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Building-Integrated Photovoltaic Glass

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Building-Integrated Photovoltaic Glass market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AGC Inc., LONGi Green Energy Technology Co., Ltd., Jinko Solar Co., Ltd., Trina Solar Co., Ltd., Nippon Sheet Glass Co., Ltd., Kaneka Corporation, Vitro, S.A.B. de C.V., China National Building Material Group Co., Ltd., China Southern Glass Holding Co., Ltd., Shanghai Yaohua Pilkington Glass Group Co., Ltd., etc.

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

Market Segmentation

Building-Integrated Photovoltaic Glass market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

BIPV Glass

Other

Market segment by Transparency Level

Opaque BIPV Glass

Semi-transparent BIPV Glass

Transparent BIPV Glass

Other Optical Designs

Market segment by Photovoltaic Technology

Crystalline Silicon BIPV Glass

Thin-film BIPV Glass

Perovskite BIPV Glass

Organic PV BIPV Glass

Other Technologies

Market segment by Customization Level

Standardized BIPV Glass

Semi-customized BIPV Glass

Fully Customized BIPV Glass

Market segment by Application

Commercial Buildings

Transportation Infrastructure

Industrial Buildings

Residential Buildings

Other

Major players covered

AGC Inc.

LONGi Green Energy Technology Co., Ltd.

Jinko Solar Co., Ltd.

Trina Solar Co., Ltd.

Nippon Sheet Glass Co., Ltd.

Kaneka Corporation

Vitro, S.A.B. de C.V.

China National Building Material Group Co., Ltd.

China Southern Glass Holding Co., Ltd.

Shanghai Yaohua Pilkington Glass Group Co., Ltd.

Onyx Solar Energy S.L.

Mitrex Integrated Solar Technology

ML System S.A.

Megasol Energie AG

Sunovation GmbH

AVANCIS GmbH

ENVELON GmbH

ertex solartechnik GmbH

ISSOL SA

Metsolar UAB

ClearVue Technologies Limited

Advanced Solar Power (Hangzhou) Inc.

SolarLab A/S

SoliTek

Solar Innova

Gain Solar

Sejong International Co., Ltd.

Glass to Power S.p.A.

Terli New Energy

Shandong First Glass Co., Ltd.

SpolarPV Technology Co., Ltd.

Renshine Solar

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Building-Integrated Photovoltaic Glass product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Building-Integrated Photovoltaic Glass, with price, sales quantity, revenue, and global market share of Building-Integrated Photovoltaic Glass from 2021 to 2026.

Chapter 3, the Building-Integrated Photovoltaic Glass competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Building-Integrated Photovoltaic Glass breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Building-Integrated Photovoltaic Glass market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Building-

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