

Building Integrated Photovoltaics (BIPV) Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

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Abstracts

Building Integrated Photovoltaics (BIPV) Market Summary

Introduction to the Building Integrated Photovoltaics (BIPV) Industry

Building Integrated Photovoltaics (BIPV) seamlessly integrates solar power generation into building materials, such as roofs, facades, and windows, combining energy production with architectural aesthetics. Unlike Building-Applied Photovoltaics (BAPV), which prioritizes power generation, BIPV emphasizes its role as a construction material, offering applications in transparent skylights, shading systems, and curtain walls. In 2024, global renewable capacity reached 4,448 GW, with solar contributing 1,865 GW, driven by 451.9 GW of new photovoltaic capacity, led by China (+278.0 GW) and India (+24.5 GW). The industry is moderately concentrated, with crystalline silicon dominating rooftops and thin-film and crystalline silicon sharing curtain wall applications. China leads production, accounting for 84.6% of global photovoltaic module output in 2024. The market is propelled by carbon neutrality goals, urban green building trends, and technological advancements, with trends toward high-efficiency modules, aesthetic designs, and smart energy systems. Challenges include high initial costs, complex building standards, and ownership disputes, yet growth is fueled by renewable energy policies and sustainable construction.

Market Size and Growth Forecast

The global Building Integrated Photovoltaics (BIPV) market is projected to reach USD 10.0–12.0 billion by 2025, with an estimated compound annual growth rate (CAGR) of 19% to 21% through 2030. Growth is driven by renewable energy mandates, urban

sustainability initiatives, and advancements in photovoltaic efficiency, tempered by high installation costs and regulatory complexities.

Regional Analysis

Asia Pacific exhibits a growth rate of 20%–22%. China's 278.0 GW solar capacity addition in 2024 drives BIPV demand, with trends toward curtain wall integration in skyscrapers. India's 24.5 GW addition supports rooftop BIPV in commercial buildings.

North America shows a growth rate of 18%–20%. The U.S., with 38.3 GW added in 2024, emphasizes BIPV in green commercial projects, with trends focusing on aesthetic facade solutions.

Europe records a growth rate of 18%–20%. Germany's 15.1 GW solar addition fuels BIPV in residential and public buildings, with trends toward transparent skylight applications under the European Green Deal.

South America has a growth rate of 17%–19%. Brazil's 15.2 GW solar growth supports BIPV in commercial facilities, with trends focusing on cost-effective rooftop systems.

Middle East and Africa display a growth rate of 16%–18%. South Korea's 3.1 GW addition drives BIPV in public infrastructure, with trends toward shading system applications.

Application Analysis

Commercial: Holds a growth rate of 20%–22%. AGC's BIPV solutions power office buildings, with trends toward curtain walls for energy-efficient skyscrapers.

Public Facility: Accounts for a growth rate of 19%–21%. Vitro's BIPV supports airports, with trends focusing on transparent skylights for sustainable infrastructure.

Residential: Records a growth rate of 17%–19%. Onyx Solar's BIPV enhances home aesthetics, with trends toward rooftop integration for urban housing.

Key Market Players

AGC: A Japanese leader, AGC produces BIPV for commercial curtain walls, focusing on high-efficiency crystalline silicon modules.

Vitro: A Mexican firm, Vitro develops BIPV for public facilities, emphasizing transparent skylight solutions with aesthetic appeal.

Onyx Solar: A Spanish company, Onyx Solar specializes in residential BIPV, prioritizing thin-film modules for rooftop applications.

Ertex Solar: An Austrian innovator, Ertex Solar excels in custom BIPV for commercial facades, focusing on durability and design.

Jinko Solar: A Chinese firm, Jinko Solar supplies crystalline silicon BIPV for rooftops, targeting cost-effective and high-output solutions.

S-ENERGY Co. Ltd.: A South Korean company, S-ENERGY produces BIPV for public infrastructure, emphasizing shading systems and smart energy integration.

Porter's Five Forces Analysis

Threat of New Entrants: Moderate. The BIPV industry requires significant R&D and compliance with building standards, deterring new entrants. Established players like AGC benefit from technological expertise, but lower barriers in emerging markets allow niche entrants.

Threat of Substitutes: Moderate. Traditional BAPV and non-solar building materials compete, but Vitro's aesthetic BIPV solutions offer unique architectural value, limiting substitution in green building projects.

Bargaining Power of Buyers: High. Large construction firms and developers negotiate pricing and specifications, pressuring Onyx Solar to offer competitive pricing and customized designs.

Bargaining Power of Suppliers: High. Suppliers of silicon and thin-film materials control costs due to specialized production, challenging Ertex Solar's cost structures and impacting margins.

Competitive Rivalry: High. Jinko Solar and S-ENERGY compete on efficiency, aesthetics, and regional presence, but differentiation through innovative designs and smart energy integration reduces price competition.

Market Opportunities and Challenges

Opportunities

Renewable Energy Mandates: Global carbon neutrality goals, such as China's 2030 carbon peak target, boost AGC's BIPV demand for sustainable buildings.

Urban Green Building Trends: Rapid urbanization in Asia Pacific drives Vitro's sales of BIPV curtain walls, supporting energy-efficient skyscrapers.

Technological Advancements: Innovations in high-efficiency and transparent BIPV modules enhance Onyx Solar's demand, enabling diverse architectural applications.

Commercial Sector Expansion: The growth of green commercial projects in the U.S. fuels Ertex Solar's BIPV sales, critical for meeting sustainability certifications.

Emerging Market Potential: India's solar capacity growth supports Jinko Solar's adoption of cost-effective BIPV, addressing energy needs in urban developments.

Smart Energy Integration: The rise of smart buildings drives S-ENERGY's demand for IoT-enabled BIPV, optimizing energy management in public facilities.

Sustainable Construction Boom: Europe's 2050 climate-neutral goal boosts AGC's BIPV sales, supporting eco-friendly residential and commercial projects.

Challenges

High Initial Costs: The significant upfront costs of BIPV systems create barriers for Vitro, particularly in cost-sensitive markets, requiring affordable solutions.

Complex Building Standards: Stringent architectural and safety regulations increase production costs for Onyx Solar, necessitating compliance investments.

Ownership Disputes: Unclear ownership models for BIPV-generated power

challenge Ertex Solar's adoption, complicating project financing.

Raw Material Price Volatility: Fluctuations in silicon and thin-film material prices pressure Jinko Solar's profitability, impacting pricing strategies.

Market Saturation in Mature Regions: Mature solar markets in Europe and North America slow S-ENERGY's growth, limiting expansion opportunities.

Competition from BAPV: The availability of lower-cost BAPV systems threatens AGC's market share, requiring differentiation through aesthetic and functional value.

Technical Complexity of Integration: The high R&D costs for seamless BIPV integration strain Vitro's resources, hindering innovation for advanced applications.

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