

Building Mounted Photovoltaic (BMPV) Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

<https://marketpublishers.com/r/B8CD82F01EA4EN.html>

Date: May 2025

Pages: 99

Price: US\$ 3,200.00 (Single User License)

ID: B8CD82F01EA4EN

Abstracts

Building Mounted Photovoltaic (BMPV) Market Summary

Introduction

Building Mounted Photovoltaic (BMPV) systems, including BIPV and BAPV types, integrate solar energy into civil, public, and industrial buildings, supporting carbon neutrality goals (EU 55% emissions cut by 2030). The market is driven by urbanization, green building certifications (LEED, BREEAM), and government subsidies. Innovations in aesthetic solar panels and energy-efficient designs boost adoption. The global market is projected to reach between USD 18 billion and USD 25 billion in 2025, with a CAGR of 8.2% to 12.5% through 2030.

Regional Analysis

North America: The U.S. leads with green building incentives, while Canada focuses on public installations.

Europe: Germany, France, and the Netherlands drive demand due to strict carbon goals.

Asia Pacific: China sees growth from smart city projects, while India expands solar infrastructure.

Rest of the World: Brazil boosts renewable energy, and the UAE invests in sustainable buildings.

Application Analysis

Civil Buildings: Expected growth of 8.3%-12.6%, driven by residential demand. Trends focus on aesthetics.

Public Buildings: Projected growth of 8.2%-12.5%, linked to government projects. Developments emphasize scalability.

Industrial Buildings: Anticipated growth of 8.4%-12.7%, suited for energy savings. Advances prioritize efficiency.

Others: Expected growth of 8.1%-12.4%, covering retrofits. Trends highlight retrofitting.

Type Analysis

BIPV: Expected growth of 8.4%-12.7%, valued for integration. Trends highlight architectural designs.

BAPV: Projected growth of 8.2%-12.5%, key for cost-effectiveness. Advances focus on installation ease.

Key Market Players

Leading firms include Hanergy, offering thin-film panels; AGC Solar, enhancing BIPV; Yingli Solar, scaling production; ertex solar, focusing on aesthetics; Canadian Solar, boosting efficiency; First Solar, targeting sustainability; Onyx Solar, innovating in BIPV; SoliTek, advancing green tech; Tesla, integrating solar roofs; and Jinko Solar, supporting large-scale projects.

Porter's Five Forces Analysis

? Threat of New Entrants: Moderate, due to high R&D and policy barriers, though innovative startups can enter.

? Threat of Substitutes: Moderate, as traditional energy competes, but BMPV offers sustainability.

? Bargaining Power of Buyers: Moderate, with developers seeking efficient, aesthetic systems, though policy incentives limit options.

? Bargaining Power of Suppliers: Low, with multiple panel providers.

? Competitive Rivalry: High, with competition on efficiency, aesthetics, and cost.

Market Opportunities and Challenges

Opportunities:

? Carbon neutrality goals and urbanization drive demand.

? Green certifications and subsidies boost adoption, while aesthetic panels and smart city projects enhance usage.

? Asia's infrastructure growth increases installations.

Challenges:

? High upfront costs limit adoption in low-income regions.

? Regulatory delays for new tech slow growth.

? Limited skilled installers in rural areas restrict expansion.

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