

Global Building-integrated Photovoltaics Market Report and Forecast 2023-2028

Market Report | 2023-10-26 | 168 pages | EMR Inc.

AVAILABLE LICENSES:

- Single User License \$2799.00
- Five User License \$3999.00
- Corporate License \$4999.00

Report description:

Global Building-Integrated Photovoltaics Market Report and Forecast 2023-2028

Market Outlook

According to the report by Expert Market Research (EMR), the global building-integrated photovoltaics market reached a value of USD 20.3 billion in 2022. Aided by the mounting global emphasis on sustainable building practices and the incessant push for renewable energy sources, the market is projected to further grow at a CAGR of 19.2% between 2023 and 2028.

Building-integrated photovoltaics (BIPV) represents an innovative fusion of the construction and renewable energy industries. BIPV systems are not merely an adjunct to a building's structure but are seamlessly integrated into the building envelope itself, be it in the form of roofs, facades, or even windows. Beyond their aesthetic appeal, these systems efficiently harness solar energy, converting it into electricity, thus mitigating a building's carbon footprint while also generating power.

A pivotal driver bolstering the global building-integrated photovoltaics market growth is the global imperative to combat climate change. As nations scramble to honour their Paris Agreement commitments and reduce greenhouse gas emissions, the construction sector, known for its sizable carbon footprint, is witnessing a paradigm shift. BIPV, with its dual promise of architectural finesse and energy efficiency, has emerged as an appealing solution in this context.

As per the global building-integrated photovoltaics market analysis, the augmenting consumer and institutional predilection for green buildings is another force underpinning the BIPV market's surge. Green building certifications, such as LEED and BREEAM, which prioritise sustainability and environmental stewardship, have galvanised the construction industry to adopt eco-friendly practices. Integrating BIPV systems, given their renewable energy generation capability, naturally aligns with these standards, further propelling their adoption.

Moreover, technological advancements have been one of the pivotal global building-integrated photovoltaics market trends. Enhanced efficiency, a broader spectrum of design options, and the advent of lightweight, flexible photovoltaic materials have facilitated the integration of BIPV systems into a plethora of architectural styles, from retrofitted historical edifices to cutting-edge modern designs.

Simultaneously, governmental policies and incentives play an instrumental role in BIPV's market trajectory. Many nations, recognising the manifold benefits of BIPV, have introduced tax breaks, subsidies, and feed-in tariffs, thereby lowering the initial investment hurdle for developers and promoting the value of the global building-integrated photovoltaics market size.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Market Segmentation □

The market can be divided based on technology, application, end use, and region.

Market Breakup by Technology

- Crystalline Silicon (C-SI)
- Thin Film
- Others

Market Breakup by Application

- Roofs
- Walls
- Glass
- Facade
- Windows
- Others

Market Breakup by End Use

- Residential
- Commercial
- Industrial

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global building-integrated photovoltaics market. Some of the major players explored in the report by Expert Market Research are as follows:

- AGC Glass Europe SA
- BELECTRIC Solar & Battery GmbH
- Heliatek GmbH
- Carmanah Technologies Corporation
- Greatcell Energy Pty Ltd.
- Hanergy Holding Group Limited
- Ertex solartechnik GmbH
- Others

About Us

Acquire unparalleled access to critical industry insights with our comprehensive market research reports, meticulously prepared by a team of seasoned experts. These reports are designed to equip decision-makers with an in-depth understanding of prevailing market trends, competitive landscapes, and growth opportunities.

Our high-quality, data-driven analysis provides the essential framework for organisations seeking to make informed and strategic decisions in an increasingly complex and rapidly evolving business environment. By investing in our market research reports, you can ensure your organisation remains agile, proactive, and poised for success in today's competitive market.

Don't miss the opportunity to elevate your business intelligence and strengthen your strategic planning. Secure your organisation's future success by acquiring one of our Expert Market Research reports today.

*We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Table of Contents:

- 1 Preface
- 2 Report Coverage - Key Segmentation and Scope
- 3 Report Description
 - 3.1 Market Definition and Outlook
 - 3.2 Properties and Applications
 - 3.3 Market Analysis
 - 3.4 Key Players
- 4 Key Assumptions
- 5 Executive Summary
 - 5.1 Overview
 - 5.2 Key Drivers
 - 5.3 Key Developments
 - 5.4 Competitive Structure
 - 5.5 Key Industrial Trends
- 6 Snapshot
 - 6.1 Global
 - 6.2 Regional
- 7 Opportunities and Challenges in the Market
- 8 Global Building-Integrated Photovoltaics Market Analysis
 - 8.1 Key Industry Highlights
 - 8.2 Global Building-Integrated Photovoltaics Historical Market (2018-2022)
 - 8.3 Global Building-Integrated Photovoltaics Market Forecast (2023-2028)
 - 8.4 Global Building-Integrated Photovoltaics Market by Technology
 - 8.4.1 Crystalline Silicon (C-Si)
 - 8.4.1.1 Historical Trend (2018-2022)
 - 8.4.1.2 Forecast Trend (2023-2028)
 - 8.4.2 Thin Film
 - 8.4.2.1 Historical Trend (2018-2022)
 - 8.4.2.2 Forecast Trend (2023-2028)
 - 8.4.3 Others
 - 8.5 Global Building-Integrated Photovoltaics Market by Application
 - 8.5.1 Roofs
 - 8.5.1.1 Historical Trend (2018-2022)
 - 8.5.1.2 Forecast Trend (2023-2028)
 - 8.5.2 Walls
 - 8.5.2.1 Historical Trend (2018-2022)
 - 8.5.2.2 Forecast Trend (2023-2028)
 - 8.5.3 Glass
 - 8.5.3.1 Historical Trend (2018-2022)
 - 8.5.3.2 Forecast Trend (2023-2028)
 - 8.5.4 Facade
 - 8.5.4.1 Historical Trend (2018-2022)
 - 8.5.4.2 Forecast Trend (2023-2028)
 - 8.5.5 Windows
 - 8.5.5.1 Historical Trend (2018-2022)
 - 8.5.5.2 Forecast Trend (2023-2028)

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.5.6 Others
- 8.6 Global Building-Integrated Photovoltaics Market by End Use
 - 8.6.1 Residential
 - 8.6.1.1 Historical Trend (2018-2022)
 - 8.6.1.2 Forecast Trend (2023-2028)
 - 8.6.2 Commercial
 - 8.6.2.1 Historical Trend (2018-2022)
 - 8.6.2.2 Forecast Trend (2023-2028)
 - 8.6.3 Industrial
 - 8.6.3.1 Historical Trend (2018-2022)
 - 8.6.3.2 Forecast Trend (2023-2028)
- 8.7 Global Building-Integrated Photovoltaics Market by Region
 - 8.7.1 North America
 - 8.7.1.1 Historical Trend (2018-2022)
 - 8.7.1.2 Forecast Trend (2023-2028)
 - 8.7.2 Europe
 - 8.7.2.1 Historical Trend (2018-2022)
 - 8.7.2.2 Forecast Trend (2023-2028)
 - 8.7.3 Asia Pacific
 - 8.7.3.1 Historical Trend (2018-2022)
 - 8.7.3.2 Forecast Trend (2023-2028)
 - 8.7.4 Latin America
 - 8.7.4.1 Historical Trend (2018-2022)
 - 8.7.4.2 Forecast Trend (2023-2028)
 - 8.7.5 Middle East and Africa
 - 8.7.5.1 Historical Trend (2018-2022)
 - 8.7.5.2 Forecast Trend (2023-2028)
- 9 North America Building-integrated Photovoltaics Market Analysis
 - 9.1 United States of America
 - 9.1.1 Historical Trend (2018-2022)
 - 9.1.2 Forecast Trend (2023-2028)
 - 9.2 Canada
 - 9.2.1 Historical Trend (2018-2022)
 - 9.2.2 Forecast Trend (2023-2028)
- 10 Europe Building-integrated Photovoltaics Market Analysis
 - 10.1 United Kingdom
 - 10.1.1 Historical Trend (2018-2022)
 - 10.1.2 Forecast Trend (2023-2028)
 - 10.2 Germany
 - 10.2.1 Historical Trend (2018-2022)
 - 10.2.2 Forecast Trend (2023-2028)
 - 10.3 France
 - 10.3.1 Historical Trend (2018-2022)
 - 10.3.2 Forecast Trend (2023-2028)
 - 10.4 Italy
 - 10.4.1 Historical Trend (2018-2022)
 - 10.4.2 Forecast Trend (2023-2028)

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 10.5 Spain
 - 10.5.1 Historical Trend (2018-2022)
 - 10.5.2 Forecast Trend (2023-2028)
- 10.5 Others
- 11 Asia Pacific Building-integrated Photovoltaics Market Analysis
 - 11.1 China
 - 11.1.1 Historical Trend (2018-2022)
 - 11.1.2 Forecast Trend (2023-2028)
 - 11.2 Japan
 - 11.2.1 Historical Trend (2018-2022)
 - 11.2.2 Forecast Trend (2023-2028)
 - 11.3 India
 - 11.3.1 Historical Trend (2018-2022)
 - 11.3.2 Forecast Trend (2023-2028)
 - 11.4 ASEAN
 - 11.4.1 Historical Trend (2018-2022)
 - 11.4.2 Forecast Trend (2023-2028)
 - 11.5 Australia
 - 11.5.1 Historical Trend (2018-2022)
 - 11.5.2 Forecast Trend (2023-2028)
 - 11.6 Others
- 12 Latin America Building-integrated Photovoltaics Market Analysis
 - 12.1 Brazil
 - 12.1.1 Historical Trend (2018-2022)
 - 12.1.2 Forecast Trend (2023-2028)
 - 12.2 Argentina
 - 12.2.1 Historical Trend (2018-2022)
 - 12.2.2 Forecast Trend (2023-2028)
 - 12.3 Mexico
 - 12.3.1 Historical Trend (2018-2022)
 - 12.3.2 Forecast Trend (2023-2028)
 - 12.4 Others
- 13 Middle East and Africa Building-integrated Photovoltaics Market Analysis
 - 13.1 Saudi Arabia
 - 13.1.1 Historical Trend (2018-2022)
 - 13.1.2 Forecast Trend (2023-2028)
 - 13.2 United Arab Emirates
 - 13.2.1 Historical Trend (2018-2022)
 - 13.2.2 Forecast Trend (2023-2028)
 - 13.3 Nigeria
 - 13.3.1 Historical Trend (2018-2022)
 - 13.3.2 Forecast Trend (2023-2028)
 - 13.4 South Africa
 - 13.4.1 Historical Trend (2018-2022)
 - 13.4.2 Forecast Trend (2023-2028)
 - 13.5 Others
- 14 Market Dynamics

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 14.1 SWOT Analysis
 - 14.1.1 Strengths
 - 14.1.2 Weaknesses
 - 14.1.3 Opportunities
 - 14.1.4 Threats
- 14.2 Porter's Five Forces Analysis
 - 14.2.1 Supplier's Power
 - 14.2.2 Buyer's Power
 - 14.2.3 Threat of New Entrants
 - 14.2.4 Degree of Rivalry
 - 14.2.5 Threat of Substitutes
- 14.3 Key Indicators for Demand
- 14.4 Key Indicators for Price
- 15 Value Chain Analysis
- 16 Competitive Landscape
 - 16.1 Market Structure
 - 16.2 Company Profiles
 - 16.2.1 AGC Glass Europe SA
 - 16.2.1.1 Company Overview
 - 16.2.1.2 Product Portfolio
 - 16.2.1.3 Demographic Reach and Achievements
 - 16.2.1.4 Certifications
 - 16.2.2 BELECTRIC Solar & Battery GmbH
 - 16.2.2.1 Company Overview
 - 16.2.2.2 Product Portfolio
 - 16.2.2.3 Demographic Reach and Achievements
 - 16.2.2.4 Certifications
 - 16.2.3 Heliatek GmbH
 - 16.2.3.1 Company Overview
 - 16.2.3.2 Product Portfolio
 - 16.2.3.3 Demographic Reach and Achievements
 - 16.2.3.4 Certifications
 - 16.2.4 Carmanah Technologies Corporation
 - 16.2.4.1 Company Overview
 - 16.2.4.2 Product Portfolio
 - 16.2.4.3 Demographic Reach and Achievements
 - 16.2.4.4 Certifications
 - 16.2.5 Greatcell Energy Pty Ltd.
 - 16.2.5.1 Company Overview
 - 16.2.5.2 Product Portfolio
 - 16.2.5.3 Demographic Reach and Achievements
 - 16.2.5.4 Certifications
 - 16.2.6 Hanergy Holding Group Limited
 - 16.2.6.1 Company Overview
 - 16.2.6.2 Product Portfolio
 - 16.2.6.3 Demographic Reach and Achievements
 - 16.2.6.4 Certifications

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 16.2.7 Ertex Solartechnik GmbH
 - 16.2.7.1 Company Overview
 - 16.2.7.2 Product Portfolio
 - 16.2.7.3 Demographic Reach and Achievements
 - 16.2.7.4 Certifications

- 16.2.8 Others

- 17 Key Trends and Developments in the Market

List of Key Figures and Tables

1. Global Building-Integrated Photovoltaics Market: Key Industry Highlights, 2018 and 2028
2. Global Building-Integrated Photovoltaics Historical Market: Breakup by Technology (USD Million), 2018-2022
3. Global Building-Integrated Photovoltaics Market Forecast: Breakup by Technology (USD Million), 2023-2028
4. Global Building-Integrated Photovoltaics Historical Market: Breakup by Application (USD Million), 2018-2022
5. Global Building-Integrated Photovoltaics Market Forecast: Breakup by Application (USD Million), 2023-2028
6. Global Building-Integrated Photovoltaics Historical Market: Breakup by End Use (USD Million), 2018-2022
7. Global Building-Integrated Photovoltaics Market Forecast: Breakup by End Use (USD Million), 2023-2028
8. Global Building-Integrated Photovoltaics Historical Market: Breakup by Region (USD Million), 2018-2022
9. Global Building-Integrated Photovoltaics Market Forecast: Breakup by Region (USD Million), 2023-2028
10. North America Building-Integrated Photovoltaics Historical Market: Breakup by Country (USD Million), 2018-2022
11. North America Building-Integrated Photovoltaics Market Forecast: Breakup by Country (USD Million), 2023-2028
12. Europe Building-Integrated Photovoltaics Historical Market: Breakup by Country (USD Million), 2018-2022
13. Europe Building-Integrated Photovoltaics Market Forecast: Breakup by Country (USD Million), 2023-2028
14. Asia Pacific Building-Integrated Photovoltaics Historical Market: Breakup by Country (USD Million), 2018-2022
15. Asia Pacific Building-Integrated Photovoltaics Market Forecast: Breakup by Country (USD Million), 2023-2028
16. Latin America Building-Integrated Photovoltaics Historical Market: Breakup by Country (USD Million), 2018-2022
17. Latin America Building-Integrated Photovoltaics Market Forecast: Breakup by Country (USD Million), 2023-2028
18. Middle East and Africa Building-Integrated Photovoltaics Historical Market: Breakup by Country (USD Million), 2018-2022
19. Middle East and Africa Building-Integrated Photovoltaics Market Forecast: Breakup by Country (USD Million), 2023-2028
20. Global Building-Integrated Photovoltaics Market Structure

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Global Building-integrated Photovoltaics Market Report and Forecast 2023-2028

Market Report | 2023-10-26 | 168 pages | EMR Inc.

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$2799.00
	Five User License	\$3999.00
	Corporate License	\$4999.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

☐ ** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2025-06-23"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com