

Polymer Solar Cells Market, Opportunity, Growth Drivers, Industry Trend Analysis and Forecast, 2024-2032

Market Report | 2024-08-07 | 300 pages | Global Market Insights

AVAILABLE LICENSES:

- Single User \$4850.00
- Multi User \$5350.00
- Enterprise User \$8350.00

Report description:

Polymer Solar Cells Market size is set to record over 25.3% CAGR from 2024 to 2032 due to rising partnerships and collaborations. These joint efforts are not only advancing technology but also speeding up the development of efficient and cost-effective solar solutions.

Companies and research institutions are pooling their expertise to boost the performance and scalability of polymer solar cells. Ongoing projects are delving into new materials and innovative manufacturing processes, aiming to enhance energy conversion rates and longevity. For example, in March 2024, E-peas and Epishine forged a strategic alliance to bolster energy-efficient consumer electronics.

The polymer solar cells industry is segmented into manufacturing technique, application, junction type, material, and region.

The market share from the doctor blading manufacturing technique segment will record a decent growth rate between 2024 and 2032. This surge is driven by the heightened demand for precision and consistency in producing polymer solar cells. The doctor blading technique spreads a uniform polymer layer onto a substrate, forming the active layer of the solar cells. Ongoing enhancements to this method further boost the performance and scalability of polymer solar cells.

In terms of application, the polymer solar cells market value from the consumer electronics segment is anticipated to witness a significant CAGR from 2024-2032. This growth is fueled by the increasing adoption of polymer solar cells to boost energy efficiency in portable and wearable devices. With their flexibility and lightweight nature, polymer solar cells can be seamlessly integrated into everyday gadgets. Ongoing research is focused on enhancing the energy conversion efficiency and durability of these cells to cater to the unique demands of consumer electronics.

MEA polymer solar cells industry size will record a robust CAGR through 2032 due to favorable government incentives and

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

policies. These initiatives not only promote the adoption of renewable energy technologies but also offer financial benefits and regulatory backing. By providing grants and subsidies, policy measures are spurring innovation and easing the integration of polymer solar cells across various applications. As these incentives continue, they are likely to bolster the acceptance of polymer solar cells, playing a pivotal role in renewable energy ambitions across the region.

Table of Contents:

Report Content

Chapter 1 Methodology and Scope

- 1.1 Market scope and definition
- 1.2 Base estimates and calculations
- 1.3 Forecast calculation
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Data mining sources
 - 1.4.2.1 Paid sources
 - 1.4.2.2 Public sources

Chapter 2 Executive Summary

2.1 Industry 360 synopsis

Chapter 3 Industry Insights

- 3.1 Industry ecosystem analysis
 - 3.1.1 Key manufacturers
 - 3.1.2 Distributors
 - 3.1.3 Profit margins across the industry
- 3.2 Industry impact forces
 - 3.2.1 Growth drivers
 - 3.2.2 Market challenges
 - 3.2.3 Market opportunity
 - 3.2.3.1 New opportunities
 - 3.2.3.2 Growth potential analysis
- 3.3 Raw material landscape
 - 3.3.1 Manufacturing trends
 - 3.3.2 Technology evolution
 - 3.3.2.1 Sustainable manufacturing
 - 3.3.2.1.1 Green practices
 - 3.3.2.1.2 Decarbonization
 - 3.3.3 Sustainability in raw materials
 - 3.3.4 Pricing trends (USD/Ton)
 - 3.3.4.1 North America
 - 3.3.4.2 Europe
 - 3.3.4.3 Asia Pacific
 - 3.3.4.4 Latin America
 - 3.3.4.5 Middle East and Africa
- 3.4 Regulations and market impact
- 3.5 Porter's analysis
- 3.6 PESTEL analysis

Chapter 4 Competitive Landscape, 2023

4.1 Company market share analysis

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

4.2 Competitive positioning matrix

4.3 Strategic outlook matrix

Chapter 5 Market Size and Forecast, By Manufacturing Technique, 2021-2032 (USD Million, Kilo Tons)

5.1 Key trends

5.2 Cylinders roll-to-roll (r2r) processing

5.3 Doctor blading

5.4 Spray coating

5.5 Spin coating

5.6 Printing techniques (screen printing, inkjet printing)

5.7 Others

Chapter 6 Market Size and Forecast, By Application, 2021-2032 (USD Million, Kilo Tons)

6.1 Key trends

6.2 BIPV (building integrated photovoltaic)

6.3 Consumer electronics

6.4 Automotive

6.5 Defence

6.6 Others (aerospace, portable devices)

Chapter 7 Market Size and Forecast, By Junction Type, 2021-2032 (USD Million, Kilo Tons)

7.1 Key trends

7.2 Single layer

7.3 Bilayer

7.4 Bulk heterojunction

7.5 Multi-junction

7.6 Other

Chapter 8 Market Size and Forecast, By Material, 2021-2032 (USD Million, Kilo Tons)

8.1 Key trends

8.2 Conjugated polymers

8.3 Fullerene derivatives (e.g., PCBM)

8.4 Non-fullerene acceptors (NFAs)

8.5 Perovskite materials

8.6 Others

Chapter 9 Market Size and Forecast, By Region, 2021-2032 (USD Million, Kilo Tons)

9.1 Key trends

9.2 North America

9.2.1 U.S.

9.2.2 Canada

9.3 Europe

9.3.1 Germany

9.3.2 UK

9.3.3 France

9.3.4 Italy

9.3.5 Spain

9.3.6 Rest of Europe

9.4 Asia Pacific

9.4.1 China

9.4.2 India

9.4.3 Japan

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

- 9.4.4 South Korea
- 9.4.5 Australia
- 9.4.6 Rest of Asia Pacific
- 9.5 Latin America
 - 9.5.1 Brazil
 - 9.5.2 Mexico
 - 9.5.3 Argentina
 - 9.5.4 Rest of Latin America

9.6 MEA

- 9.6.1 Saudi Arabia
- 9.6.2 UAE
- 9.6.3 South Africa
- 9.6.4 Rest of MEA

Chapter 10 Company Profiles

- 10.1 Heliatek GmbH
- 10.2 infinityPV ApS
- 10.3 BELECTRIC OPV GmbH (OPVIUS GmbH)
- 10.4 SUNEW
- 10.5 Solarmer Energy, Inc.
- 10.6 Armor Group
- 10.7 Solvay S.A.
- 10.8 Eight19 Ltd.
- 10.9 SolarWindow Technologies, Inc.
- 10.10 Raynergy Tek Incorporation

□

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

Polymer Solar Cells Market, Opportunity, Growth Drivers, Industry Trend Analysis and Forecast, 2024-2032

Market Report | 2024-08-07 | 300 pages | Global Market Insights

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	\$4850.00
	Multi User	\$5350.00
	Enterprise User	\$8350.00
		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="2026-03-02"/>
		Signature	

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

